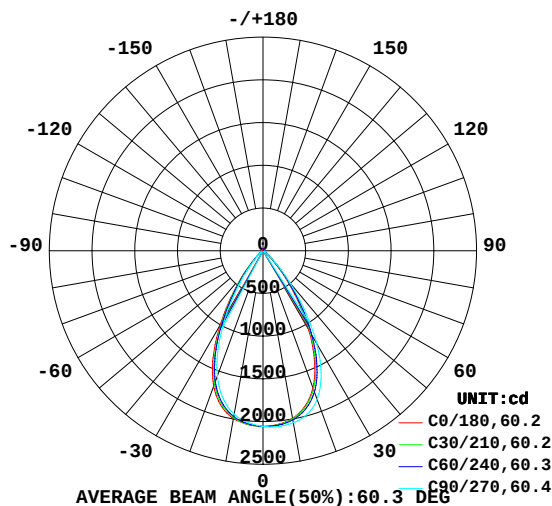


LUMINAIRE PHOTOMETRIC TEST REPORT

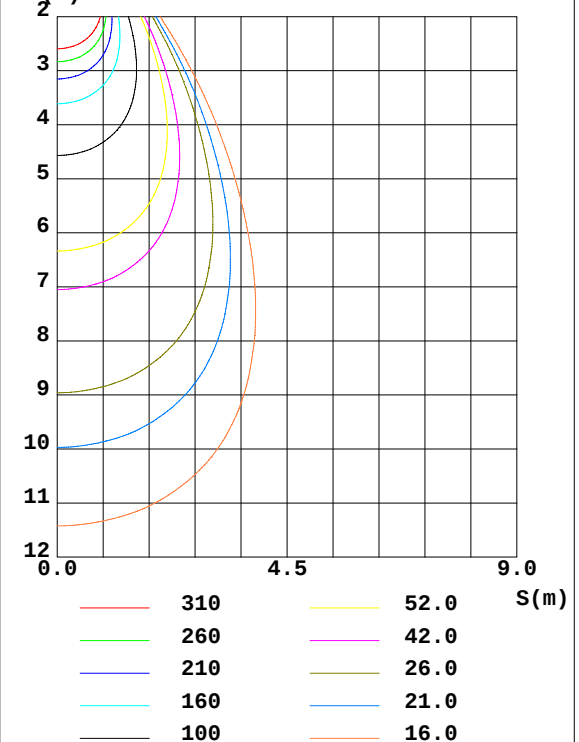
NAME: VN-TL0020-31	TYPE:LED TRACK LIGHT	WEIGHT:1
SPEC.:3000K CRI90 25-60D	DIM.:	SERIAL No.:
MFR.: 1	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 98.17 lm/W			
MODEL	CLU038-1205C4	Imax(cd)	2068	S/MH(C0/180)	0.89
NOMINAL POWER(W)	20	LOR(%)	100.0	S/MH(C90/270)	0.84
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	2037.7	η UP, DN(C0-180)	1.2, 53.5
NOMINAL FLUX(lm)	2037.66	CIE CLASS	DIRECT	η UP, DN(C180-360)	1.1, 44.2
LAMPS INSIDE	1	η up(%)	2.3	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	120	η down(%)	97.7	CIBSE SHR MAX	0.95

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:23DEG
Operators:TZH
Test Date:2018-04-08

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.300m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

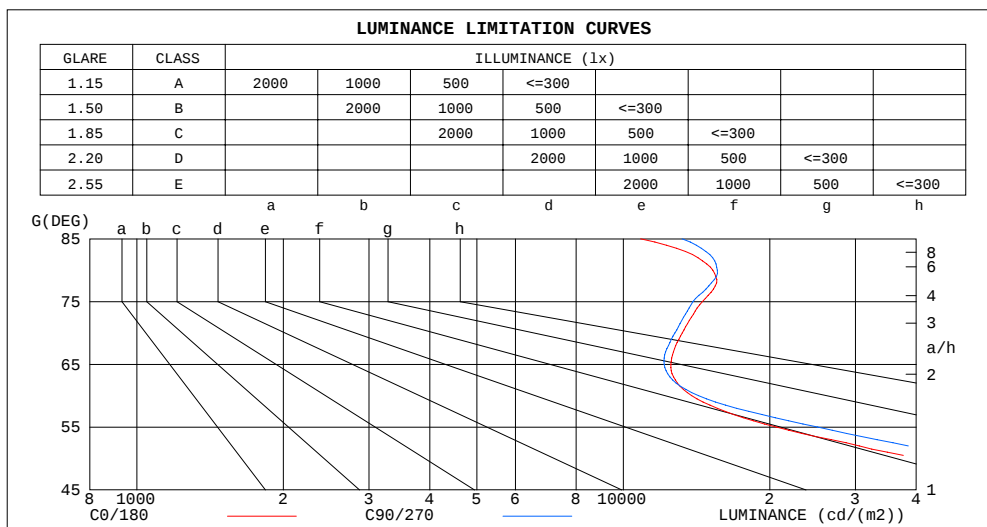
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1992	2009	2044	2034	1993	1969	1941	1956	0- 10	193.4	193.4	9.49,9.49
20	1709	1753	1851	1825	1689	1630	1562	1595	10- 20	526.7	720.1	35.3,35.3
30	1072	1139	1261	1225	999.8	933.3	855.1	886.5	20- 30	638.8	1359	66.7,66.7
40	399.6	445.2	494.4	477.0	344.5	304.5	257.4	268.1	30- 40	422.4	1781	87.4,87.4
50	80.04	91.74	107.4	102.1	65.08	56.67	49.04	51.26	40- 50	146.0	1927	94.6,94.6
60	21.22	21.97	22.30	21.26	18.28	17.74	17.56	17.46	50- 60	33.94	1961	96.2,96.2
70	13.88	13.87	13.64	13.68	12.54	12.45	12.57	12.66	60- 70	15.61	1977	97.97
80	8.141	8.578	8.464	8.217	5.833	5.429	5.061	5.293	70- 80	11.07	1988	97.6,97.6
90	0.6903	0.7156	0.7097	0.6498	0.4211	0.4193	0.4264	0.4094	80- 90	2.916	1991	97.7,97.7
100	0.8315	0.7769	0.7328	0.7301	0.6776	0.6989	0.7379	0.7183	90-100	0.6049	1991	97.7,97.7
110	2.165	2.003	1.818	1.855	1.657	1.780	1.947	1.880	100-110	1.273	1993	97.8,97.8
120	5.069	4.750	4.389	4.489	4.095	4.358	4.756	4.619	110-120	3.043	1996	97.9,97.9
130	9.388	8.961	8.448	8.588	8.108	8.476	9.081	8.859	120-130	5.837	2002	98.2,98.2
140	14.32	13.89	13.36	13.50	12.90	13.29	13.96	13.60	130-140	8.588	2010	98.7,98.7
150	18.59	18.38	18.03	18.10	17.21	17.56	18.05	17.53	140-150	9.899	2020	99.1,99.1
160	21.53	21.48	21.41	21.34	20.53	20.64	20.77	20.25	150-160	9.005	2029	99.6,99.6
170	23.67	23.59	23.63	23.51	23.28	23.44	23.32	22.93	160-170	6.256	2035	99.9,99.9
180	25.20	25.52	25.29	25.36	25.22	25.53	25.27	25.37	170-180	2.309	2038	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:23DEG
Operators:TZH
Test Date:2018-04-08

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.300m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

NAME: VN-TL0020-31	TYPE:LED TRACK LIGHT	WEIGHT:1
SPEC.:3000K CRI90 25-60D	DIM.:	SERIAL No.:
MFR.: 1	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	10850	13208
80	15270	15601
75	14543	13907
70	13222	12769
65	12523	12131
60	13826	14279
55	20641	25087
50	40555	53499
45	86362	111579

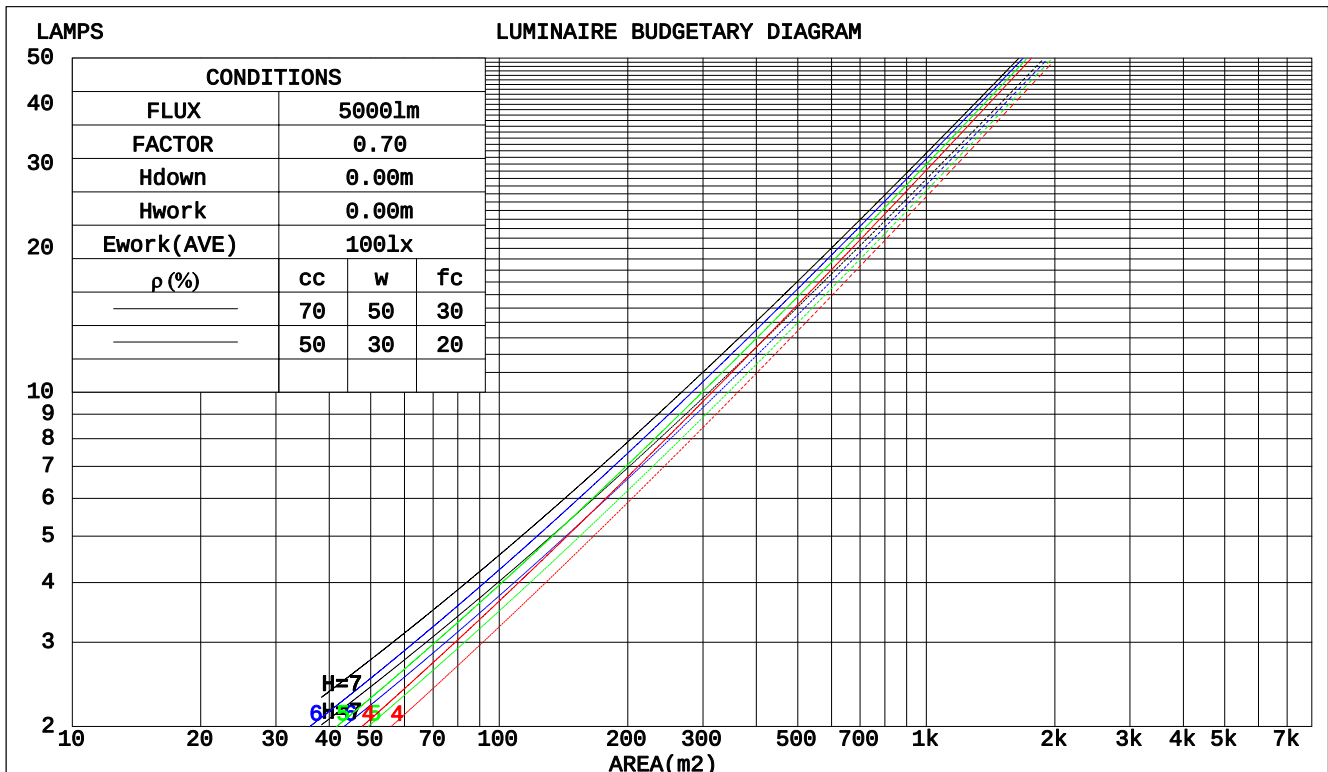
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:23DEG
Operators:TZH
Test Date:2018-04-08

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.300m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: VN-TL0020-31	TYPE:LED TRACK LIGHT	WEIGHT:1
SPEC.:3000K CRI90 25-60D	DIM.:	SERIAL No.:
MFR.: 1	SUR.:	Shielding Angle:

ρ_{CC}	80%			70%			50%			30%			10%			0
ρ_W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.15	1.15	1.15	1.10	1.10	1.10	1.05	1.05	1.05	.00	.00	.00	.98
1.0	1.10	1.07	1.05	1.07	1.05	1.03	1.03	1.01	.99	.99	.97	.96	.95	.94	.93	.91
2.0	1.02	.97	.94	.90	.96	.93	.96	.93	.90	.93	.90	.88	.90	.88	.86	.84
3.0	.94	.89	.85	.93	.88	.84	.90	.86	.83	.87	.84	.81	.84	.82	.79	.78
4.0	.88	.82	.78	.86	.81	.77	.84	.79	.76	.82	.78	.75	.80	.76	.74	.72
5.0	.82	.76	.71	.81	.75	.71	.79	.74	.70	.77	.73	.69	.75	.71	.68	.67
6.0	.77	.70	.66	.76	.70	.66	.74	.69	.65	.72	.68	.64	.71	.67	.64	.62
7.0	.72	.66	.61	.71	.65	.61	.70	.64	.61	.68	.64	.60	.67	.63	.60	.58
8.0	.68	.61	.57	.67	.61	.57	.66	.60	.57	.64	.60	.56	.63	.59	.56	.54
9.0	.64	.58	.53	.63	.57	.53	.62	.57	.53	.61	.56	.53	.60	.55	.52	.51
10.0	.60	.54	.50	.59	.54	.50	.58	.53	.50	.58	.53	.49	.57	.52	.49	.48



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:23DEG
Operators:TZH
Test Date:2018-04-08

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 γ Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.300m [K=1.0000]
Remarks:

WEC AND CCEC

NAME: VN-TL0020-31	TYPE:LED TRACK LIGHT	WEIGHT:1
SPEC.:3000K CRI90 25-60D	DIM.:	SERIAL No.:
MFR.: 1	SUR.:	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0	
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρ_{fc}	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.188	.107	.034	.180	.103	.033	.166	.095	.030	.153	.088	.028	.142	.082	.026		
2.0	.179	.098	.030	.173	.095	.029	.161	.090	.028	.150	.084	.026	.140	.079	.025		
3.0	.170	.091	.027	.165	.088	.027	.155	.084	.025	.145	.080	.024	.136	.076	.023		
4.0	.162	.084	.025	.157	.082	.024	.148	.079	.023	.140	.075	.023	.132	.072	.022		
5.0	.154	.079	.023	.150	.077	.022	.142	.074	.022	.135	.071	.021	.128	.068	.021		
6.0	.147	.074	.021	.143	.072	.021	.136	.070	.020	.130	.067	.020	.123	.065	.019		
7.0	.140	.069	.020	.137	.068	.019	.131	.066	.019	.125	.064	.019	.119	.062	.018		
8.0	.134	.065	.018	.131	.064	.018	.125	.063	.018	.120	.061	.018	.115	.059	.017		
9.0	.128	.062	.017	.125	.061	.017	.120	.059	.017	.115	.058	.017	.111	.056	.016		
10.0	.123	.059	.016	.120	.058	.016	.116	.057	.016	.111	.055	.016	.107	.054	.015		

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.208	.208	.208	.178	.178	.178	.121	.121	.121	.070	.070	.070	.022	.022	.022	
1.0	.190	.175	.162	.162	.150	.139	.111	.103	.096	.064	.060	.056	.020	.019	.018	
2.0	.175	.150	.129	.150	.129	.112	.103	.089	.078	.059	.052	.046	.019	.017	.015	
3.0	.163	.131	.106	.140	.113	.092	.096	.079	.065	.055	.046	.038	.018	.015	.012	
4.0	.153	.117	.089	.132	.101	.078	.090	.070	.055	.052	.041	.032	.017	.013	.011	
5.0	.145	.106	.077	.124	.091	.067	.086	.064	.047	.050	.037	.028	.016	.012	.009	
6.0	.138	.096	.067	.118	.084	.058	.082	.058	.041	.047	.034	.024	.015	.011	.008	
7.0	.131	.089	.059	.113	.077	.052	.078	.054	.037	.045	.032	.022	.015	.010	.007	
8.0	.126	.083	.053	.108	.072	.047	.075	.050	.033	.044	.030	.020	.014	.010	.007	
9.0	.121	.078	.049	.104	.067	.043	.072	.047	.030	.042	.028	.018	.014	.009	.006	
10.0	.116	.073	.045	.100	.064	.039	.069	.045	.028	.041	.027	.017	.013	.009	.006	

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:23DEG
Operators:TZH
Test Date:2018-04-08

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.300m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

NAME: VN-TL0020-31						TYPE:LED TRACK LIGHT			WEIGHT:1		
SPEC.:3000K CRI90 25-60D						DIM.:			SERIAL No.:		
MFR.: 1						SUR.:			Shielding Angle:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions	Viewed crosswise					Viewed endwise					
x = 2H y = 2H	24.2	25.2	24.5	25.4	25.6	24.8	25.8	25.1	26.0	26.2	
3H	24.1	25.0	24.4	25.2	25.5	24.7	25.6	25.0	25.9	26.1	
4H	24.1	24.9	24.4	25.2	25.5	24.7	25.5	25.0	25.8	26.1	
6H	24.1	24.9	24.4	25.1	25.4	24.7	25.4	25.0	25.7	26.0	
8H	24.1	24.8	24.4	25.1	25.4	24.6	25.4	25.0	25.7	26.0	
12H	24.0	24.8	24.4	25.1	25.4	24.6	25.3	25.0	25.7	26.0	
4H 2H	24.0	24.8	24.3	25.1	25.3	24.6	25.4	24.9	25.7	26.0	
3H	23.9	24.6	24.3	24.9	25.3	24.5	25.2	24.9	25.5	25.9	
4H	23.9	24.6	24.3	24.9	25.3	24.5	25.2	24.9	25.5	25.9	
6H	24.0	24.6	24.4	24.9	25.3	24.5	25.1	24.9	25.5	25.9	
8H	24.0	24.5	24.4	24.9	25.3	24.5	25.1	25.0	25.4	25.9	
12H	24.0	24.5	24.4	24.9	25.3	24.5	25.0	25.0	25.4	25.8	
8H 4H	23.8	24.4	24.3	24.8	25.2	24.4	24.9	24.8	25.3	25.7	
6H	23.9	24.4	24.4	24.8	25.3	24.5	24.9	24.9	25.3	25.8	
8H	24.0	24.4	24.5	24.8	25.3	24.5	24.9	25.0	25.3	25.8	
12H	24.0	24.3	24.5	24.8	25.3	24.5	24.8	25.0	25.3	25.8	
12H 4H	23.8	24.3	24.3	24.7	25.1	24.4	24.9	24.8	25.3	25.7	
6H	23.9	24.3	24.4	24.8	25.3	24.4	24.8	24.9	25.3	25.8	
8H	24.0	24.3	24.5	24.8	25.3	24.5	24.8	25.0	25.3	25.8	
Variations with the observer position at spacings:											
S = 1.0H	+ 2.3 / - 5.2					+ 2.7 / - 5.8					
1.5H	+ 4.1 / - 5.0					+ 4.5 / - 5.7					
2.0H	+ 4.4 / - 2.5					+ 5.4 / - 3.1					

CIE Pub.117, 2038 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 2.5$)

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:23DEG
Operators:TZH
Test Date:2018-04-08

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.300m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

NAME: VN-TL0020-31	TYPE:LED TRACK LIGHT	WEIGHT:1
SPEC.:3000K CRI90 25-60D	DIM.:	SERIAL No.:
MFR.: 1	SUR.:	Shielding Angle:

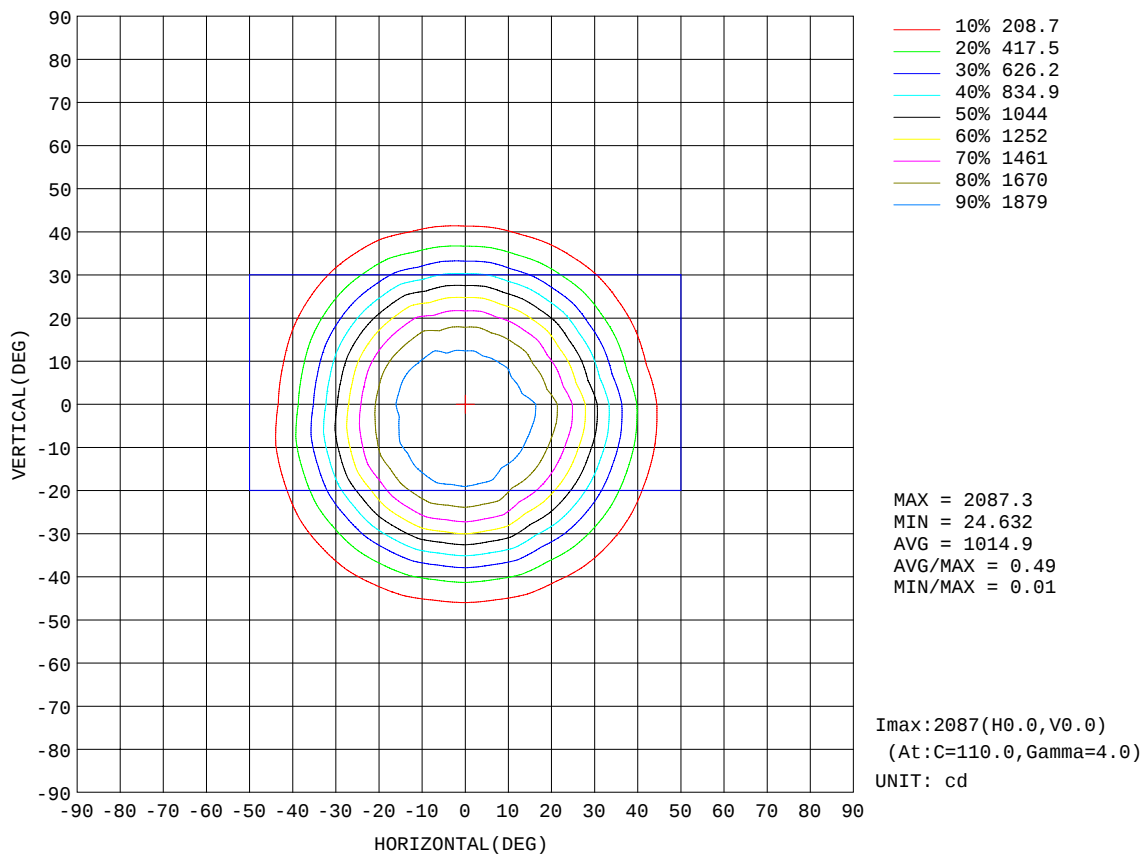
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) × RCR = 5									
k = 0.60	84	77	73	83	77	73	82	76	72	69
0.80	92	85	81	91	85	81	89	84	80	76
1.00	96	90	86	95	90	86	94	90	85	81
1.25	101	95	91	100	94	91	97	93	90	85
1.50	104	99	95	102	98	94	100	96	93	88
2.00	107	102	99	105	101	98	102	99	96	90
2.50	109	105	101	107	103	100	103	100	98	91
3.00	110	107	104	108	105	102	105	102	100	93
4.00	113	109	107	110	108	105	106	104	102	95
5.00	114	111	109	111	109	107	107	105	104	96
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004										
Suspended										
SHRNM = 1.25										

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:23DEG
Operators:TZH
Test Date:2018-04-08

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.300m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME: VN-TL0020-31	TYPE:LED TRACK LIGHT	WEIGHT:1
SPEC.:3000K CRI90 25-60D	DIM.:	SERIAL No.:
MFR.: 1	SUR.:	Shielding Angle:

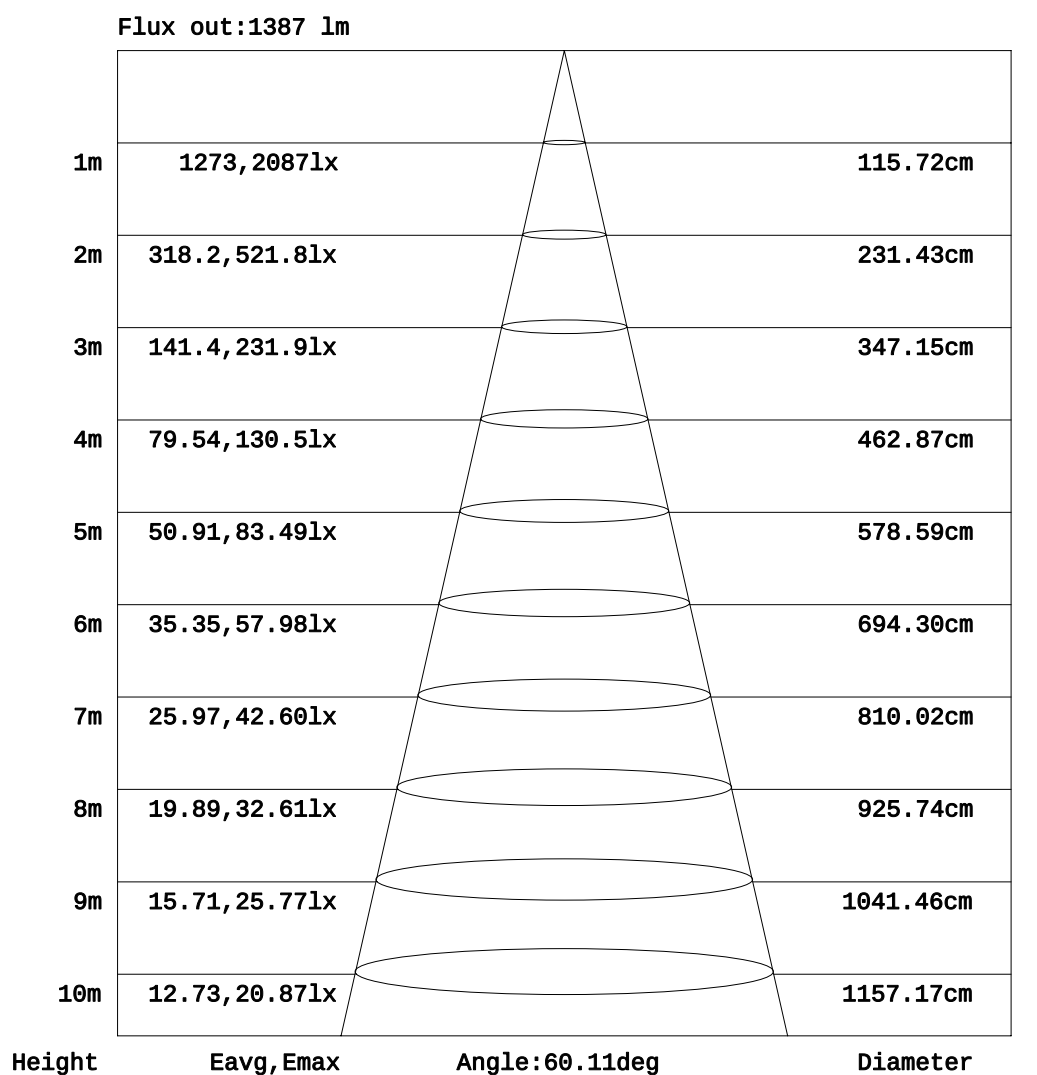


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature: 23DEG
Operators: TZH
Test Date: 2018-04-08

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.401
Humidity: 65.0%
Test Distance: 5.300m [K=1.0000]
Remarks:

AAI Figure

NAME: VN-TL0020-31	TYPE:LED TRACK LIGHT	WEIGHT:1
SPEC.:3000K CRI90 25-60D	DIM.:	SERIAL No.:
MFR.: 1	SUR.:	Shielding Angle:



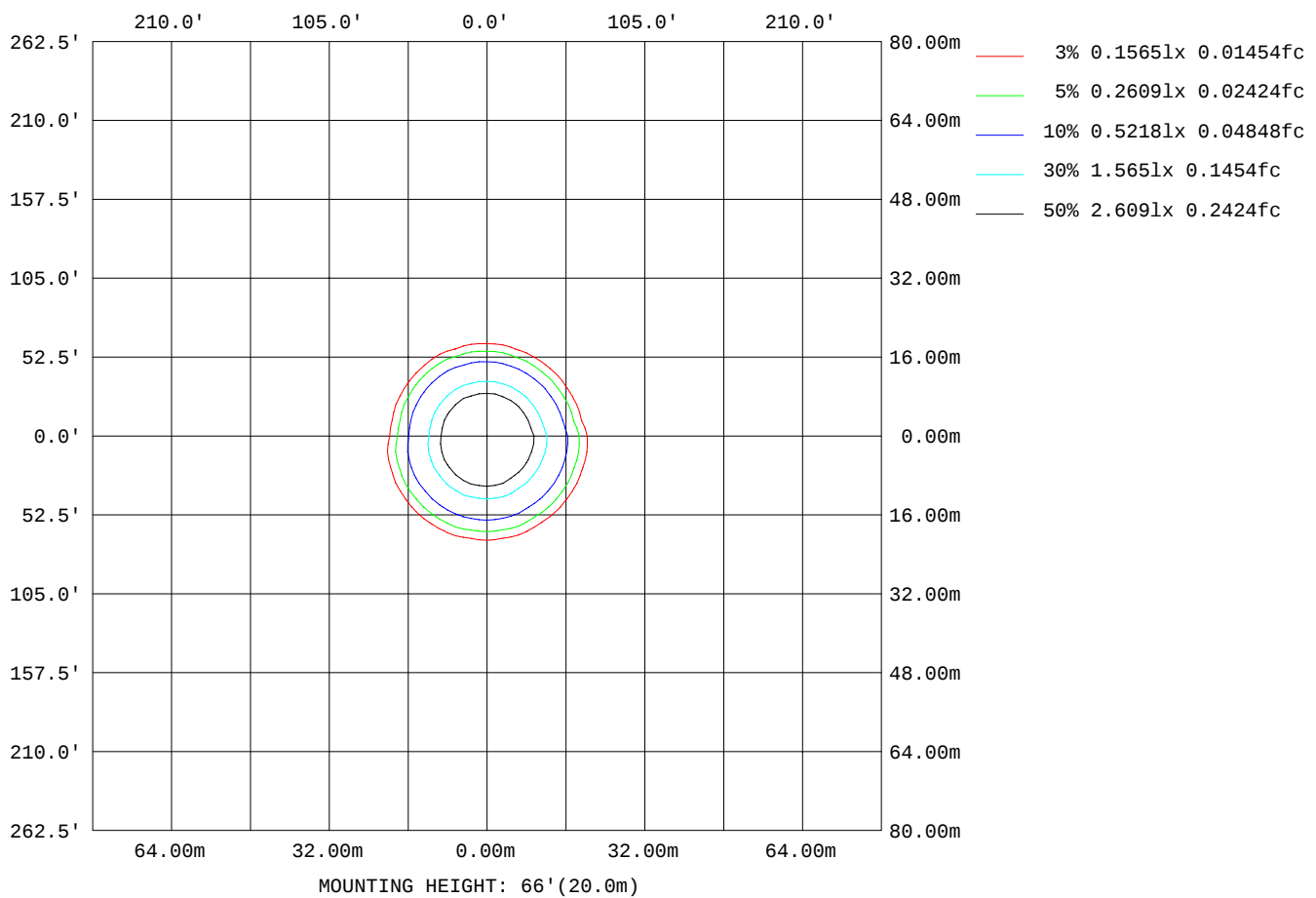
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:23DEG
Operators:TZH
Test Date:2018-04-08

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.300m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

NAME: VN-TL0020-31	TYPE:LED TRACK LIGHT	WEIGHT:1
SPEC.:3000K CRI90 25-60D	DIM.:	SERIAL No.:
MFR.: 1	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:23DEG
Operators:TZH
Test Date:2018-04-08

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.300m [K=1.0000]
Remarks:

LED Avg.L Report

NAME: VN-TL0020-31	TYPE:LED TRACK LIGHT	WEIGHT:1
SPEC.:3000K CRI90 25-60D	DIM.:	SERIAL No.:
MFR.: 1	SUR.:	Shielding Angle:

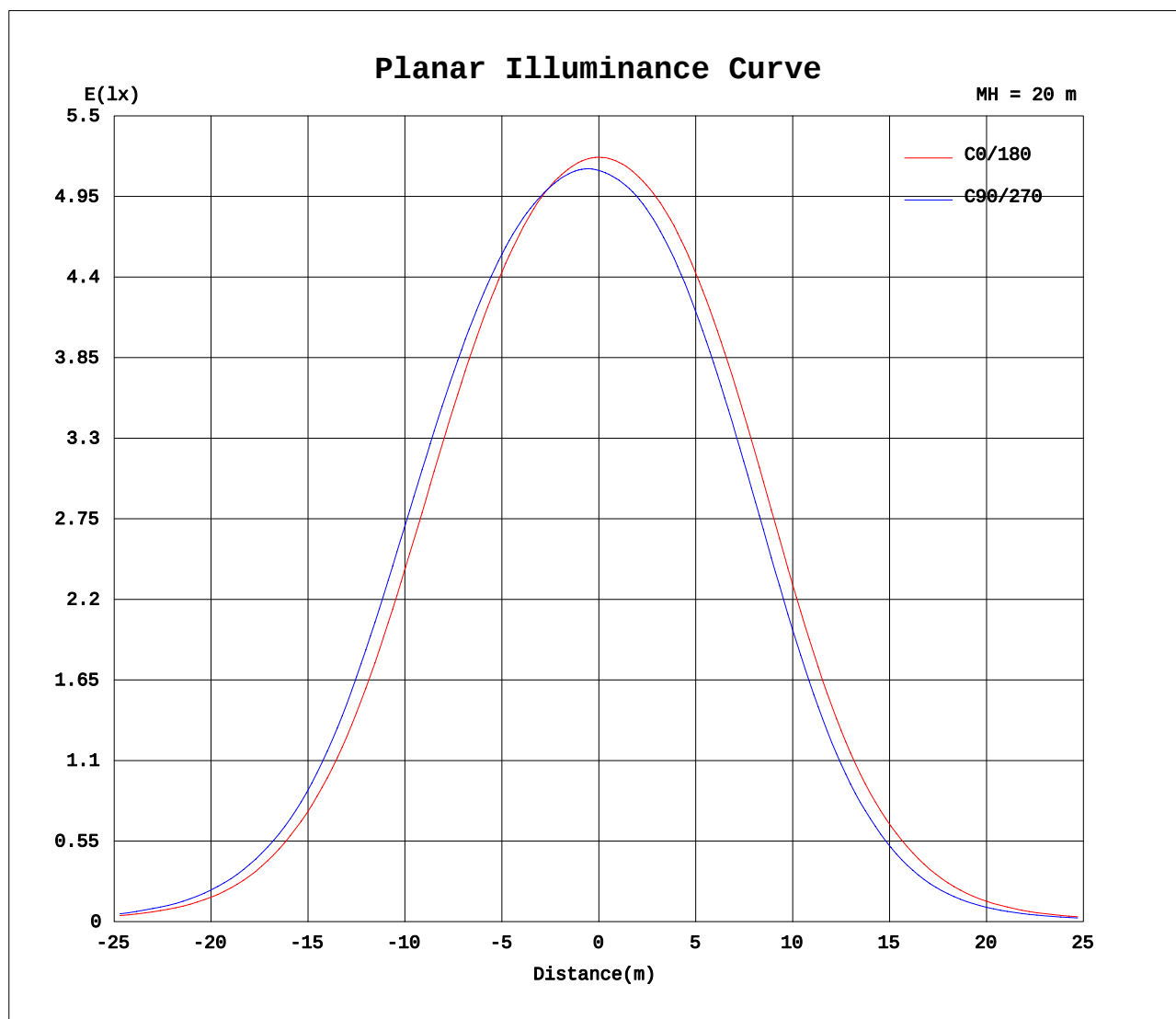
AvgL	cd/m2
L_0~180(65)av	11811
L_0~180(75)av	13468
L_0~180(85)av	6972
L_90~270(65)av	11722
L_90~270(75)av	13143
L_90~270(85)av	8117
L_45(65)av	11700
L_45(75)av	13289
L_45(85)av	7662

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:23DEG
Operators:TZH
Test Date:2018-04-08

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.300m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: MEDIUM
 Temperature: 23DEG
 Operators: TZH
 Test Date: 2018-04-08

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.401
 Humidity: 65.0%
 Test Distance: 5.300m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: VN-TL0020-31	TYPE:LED TRACK LIGHT	WEIGHT:1
SPEC.:3000K CRI90 25-60D	DIM.:	SERIAL No.:
MFR.: 1	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	2056	2056	2056	2056	2056	2056	2056	2056	2056	2056	2056	2056	2056	2056	2056	2056	2056	2056	2056
5	2040	2042	2041	2043	2048	2049	2049	2062	2061	2064	2062	2068	2063	2061	2056	2059	2053	2049	2041
10	1992	1995	1993	1997	2007	2011	2010	2039	2039	2044	2040	2050	2043	2039	2029	2035	2021	2009	1993
15	1888	1895	1892	1899	1914	1921	1920	1972	1971	1984	1979	1995	1984	1976	1956	1963	1936	1917	1884
20	1709	1720	1715	1726	1747	1759	1759	1831	1831	1851	1844	1870	1851	1841	1810	1816	1777	1749	1689
25	1428	1448	1440	1458	1479	1497	1496	1589	1586	1612	1601	1637	1611	1600	1559	1566	1512	1477	1383
30	1072	1097	1090	1112	1128	1150	1145	1236	1230	1261	1247	1285	1256	1246	1203	1205	1147	1114	1000
35	704	728	725	744	755	771	764	834	825	849	834	866	841	836	800	799	754	731	629
40	400	419	419	433	440	451	447	486	482	494	487	504	491	488	466	465	437	422	344
45	187	199	199	208	212	220	218	240	237	246	242	253	245	245	232	230	213	203	156
50	80.0	85.0	84.5	88.8	89.7	93.8	92.7	103	101	107	104	111	105	105	99.1	98.9	90.5	86.5	65.1
55	36.3	37.9	37.7	39.1	39.3	40.9	40.8	43.8	43.3	45.0	44.0	45.4	43.4	43.4	40.9	41.1	38.3	37.3	29.1
60	21.2	21.8	21.7	22.0	21.8	22.1	21.8	22.3	22.0	22.3	21.9	22.0	21.2	21.4	21.1	21.3	20.7	20.6	18.3
65	16.2	16.4	16.3	16.4	16.2	16.3	16.1	16.0	15.9	16.0	15.9	15.9	15.6	15.9	16.0	16.0	15.9	15.9	14.9
70	13.9	14.0	14.0	14.1	13.9	13.9	13.7	13.5	13.5	13.6	13.6	13.6	13.5	13.7	13.7	13.7	13.6	13.6	12.5
75	11.6	11.7	11.6	11.7	11.5	11.6	11.4	11.3	11.2	11.2	11.2	11.2	11.1	11.2	11.2	11.2	11.1	11.2	10.2
80	8.14	8.48	8.46	8.66	8.51	8.64	8.50	8.50	8.37	8.46	8.34	8.41	8.26	8.32	8.11	8.07	7.77	7.66	5.83
85	2.90	3.25	3.25	3.50	3.37	3.56	3.43	3.56	3.44	3.60	3.45	3.53	3.33	3.36	3.06	2.98	2.60	2.44	0.88
90	0.69	0.73	0.72	0.73	0.71	0.72	0.70	0.71	0.70	0.71	0.69	0.70	0.68	0.67	0.63	0.62	0.56	0.54	0.42
95	0.57	0.57	0.56	0.57	0.55	0.56	0.54	0.54	0.53	0.54	0.52	0.53	0.52	0.53	0.53	0.55	0.55	0.57	0.51
100	0.83	0.81	0.81	0.79	0.78	0.78	0.77	0.74	0.74	0.73	0.72	0.72	0.72	0.73	0.73	0.76	0.78	0.81	0.68
105	1.33	1.29	1.29	1.25	1.25	1.22	1.22	1.15	1.15	1.12	1.13	1.10	1.12	1.12	1.16	1.18	1.24	1.28	1.03
110	2.16	2.09	2.10	2.05	2.03	1.98	1.99	1.86	1.87	1.82	1.83	1.78	1.82	1.82	1.89	1.91	2.02	2.08	1.66
115	3.41	3.31	3.31	3.24	3.20	3.13	3.15	2.95	2.97	2.90	2.92	2.85	2.90	2.91	3.01	3.04	3.19	3.29	2.67
120	5.07	4.94	4.95	4.85	4.79	4.71	4.74	4.46	4.48	4.39	4.43	4.32	4.40	4.42	4.56	4.58	4.78	4.90	4.10
125	7.08	6.96	6.94	6.84	6.76	6.67	6.68	6.35	6.37	6.27	6.30	6.19	6.27	6.31	6.47	6.49	6.72	6.89	5.94
130	9.39	9.24	9.23	9.12	9.01	8.91	8.93	8.53	8.57	8.45	8.50	8.36	8.46	8.49	8.68	8.69	8.97	9.15	8.11
135	11.9	11.7	11.7	11.6	11.5	11.4	11.4	10.9	11.0	10.9	10.9	10.8	10.9	10.9	11.1	11.1	11.4	11.6	10.5
140	14.3	14.2	14.2	14.1	13.9	13.8	13.9	13.4	13.5	13.4	13.4	13.3	13.4	13.4	13.6	13.6	13.9	14.1	12.9
145	16.6	16.5	16.5	16.4	16.3	16.2	16.2	15.9	15.9	15.8	15.9	15.7	15.8	15.8	16.0	16.0	16.3	16.5	15.2
150	18.6	18.5	18.5	18.5	18.4	18.4	18.4	18.0	18.1	18.0	18.1	17.9	18.0	18.0	18.2	18.2	18.4	18.6	17.2
155	20.2	20.2	20.1	20.2	20.1	20.1	20.1	19.9	20.0	20.0	20.0	19.8	19.9	19.9	20.0	20.0	20.1	20.3	19.0
160	21.5	21.5	21.4	21.4	21.4	21.5	21.6	21.4	21.4	21.4	21.4	21.3	21.3	21.3	21.4	21.4	21.5	21.7	20.5
165	22.6	22.6	22.5	22.4	22.5	22.6	22.7	22.7	22.7	22.7	22.7	22.5	22.4	22.4	22.4	22.5	22.7	22.8	22.0
170	23.7	23.6	23.5	23.5	23.5	23.6	23.7	23.7	23.7	23.6	23.5	23.5	23.4	23.4	23.6	23.7	23.8	23.8	23.3
175	24.6	24.6	24.5	24.6	24.7	24.8	24.8	24.7	24.6	24.5	24.5	24.6	24.6	24.7	24.8	24.8	24.7	24.6	24.5
180	25.2	25.2	25.2	25.4	25.5	25.5	25.4	25.3	25.2	25.3	25.2	25.3	25.3	25.4	25.3	25.2	25.0	25.0	25.2

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:23DEG
Operators:TZH
Test Date:2018-04-08

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.300m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: VN-TL0020-31	TYPE:LED TRACK LIGHT	WEIGHT:1
SPEC.:3000K CRI90 25-60D	DIM.:	SERIAL No.:
MFR.: 1	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	2056	2056	2056	2056	2056	2056	2056	2056	2056	2056	2056	2056	2056	2056	2056	2056	2056		
5	2039	2039	2037	2032	2031	2031	2020	2020	2020	2021	2020	2023	2025	2029	2027	2033	2036		
10	1987	1987	1982	1970	1968	1970	1940	1944	1941	1946	1938	1945	1950	1962	1954	1968	1978		
15	1873	1872	1864	1847	1842	1846	1796	1802	1795	1804	1790	1804	1812	1831	1819	1842	1857		
20	1670	1668	1655	1634	1625	1632	1565	1575	1562	1575	1554	1574	1581	1608	1598	1632	1654		
25	1358	1358	1339	1320	1307	1314	1242	1251	1235	1248	1224	1246	1253	1286	1281	1324	1350		
30	974	976	956	942	925	931	867	874	855	867	843	865	869	903	904	950	976		
35	609	612	595	586	570	572	528	528	514	518	503	514	520	544	554	589	612		
40	330	329	317	310	299	298	269	269	257	260	249	258	260	277	284	309	326		
45	147	147	140	139	131	133	118	120	113	115	109	115	114	123	124	138	145		
50	61.4	61.1	59.1	57.6	55.7	55.4	51.6	51.3	49.0	49.6	47.7	49.1	49.9	52.6	54.6	58.6	61.3		
55	28.1	28.2	27.5	27.4	26.8	26.8	25.8	25.9	25.2	25.3	24.7	24.9	25.0	26.3	27.1	28.7	29.7		
60	17.9	17.9	17.7	17.8	17.7	17.8	17.8	17.8	17.6	17.5	17.4	17.3	17.2	17.7	18.2	18.8	19.0		
65	14.7	14.6	14.6	14.7	14.7	14.7	14.9	14.9	14.9	14.8	14.8	14.8	14.7	14.9	15.2	15.4	15.4		
70	12.4	12.4	12.3	12.5	12.4	12.5	12.6	12.7	12.6	12.6	12.6	12.6	12.6	12.7	12.9	13.0	13.1		
75	10.0	10.1	9.96	10.1	10.0	10.0	10.1	10.1	9.96	10.00	9.94	10.01	10.00	10.2	10.3	10.5	10.6		
80	5.53	5.58	5.39	5.52	5.34	5.40	5.25	5.30	5.06	5.14	4.98	5.16	5.12	5.46	5.59	6.07	6.29		
85	0.78	0.80	0.76	0.78	0.77	0.77	0.79	0.79	0.81	0.82	0.84	0.84	0.86	0.87	0.90	1.04	1.19		
90	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.43	0.43	0.43	0.42	0.42	0.41	0.41	0.40	0.41	0.41		
95	0.50	0.51	0.50	0.51	0.50	0.52	0.52	0.52	0.52	0.53	0.52	0.52	0.51	0.51	0.49	0.50	0.47		
100	0.68	0.69	0.69	0.70	0.70	0.71	0.72	0.74	0.74	0.74	0.74	0.74	0.72	0.71	0.70	0.69	0.66		
105	1.05	1.06	1.07	1.08	1.10	1.10	1.16	1.15	1.18	1.16	1.19	1.17	1.16	1.12	1.11	1.06	1.03		
110	1.71	1.71	1.75	1.76	1.80	1.78	1.91	1.89	1.95	1.91	1.97	1.92	1.92	1.84	1.84	1.74	1.70		
115	2.74	2.75	2.80	2.83	2.88	2.87	3.07	3.06	3.13	3.09	3.18	3.11	3.08	2.97	2.96	2.82	2.73		
120	4.20	4.19	4.27	4.32	4.39	4.38	4.67	4.65	4.76	4.70	4.83	4.73	4.70	4.54	4.53	4.33	4.21		
125	6.06	6.05	6.14	6.23	6.30	6.29	6.67	6.65	6.78	6.71	6.87	6.74	6.70	6.50	6.49	6.25	6.08		
130	8.24	8.23	8.32	8.43	8.52	8.51	8.97	8.95	9.08	9.01	9.18	9.04	8.97	8.75	8.74	8.45	8.26		
135	10.6	10.6	10.7	10.8	10.9	10.9	11.4	11.4	11.5	11.5	11.6	11.5	11.4	11.1	11.1	10.8	10.6		
140	13.0	13.0	13.1	13.3	13.3	13.4	13.9	13.9	14.0	13.9	14.0	13.9	13.7	13.5	13.5	13.2	12.9		
145	15.3	15.3	15.4	15.5	15.6	15.6	16.1	16.1	16.2	16.1	16.2	16.0	15.9	15.6	15.6	15.3	15.1		
150	17.3	17.3	17.4	17.5	17.6	17.6	18.0	18.0	18.1	17.9	18.0	17.8	17.6	17.4	17.4	17.1	17.0		
155	19.1	19.1	19.1	19.2	19.2	19.2	19.5	19.6	19.6	19.4	19.4	19.2	19.1	18.9	18.9	18.7	18.6		
160	20.6	20.6	20.6	20.6	20.6	20.6	20.8	20.8	20.8	20.6	20.6	20.4	20.3	20.2	20.1	20.0	20.0		
165	22.1	22.1	22.1	22.0	21.9	21.9	22.1	22.1	22.1	22.0	22.0	21.8	21.6	21.4	21.3	21.3	21.3		
170	23.4	23.5	23.6	23.5	23.4	23.3	23.3	23.3	23.3	23.3	23.3	23.2	23.0	22.8	22.8	22.7	22.6		
175	24.6	24.8	24.9	25.0	24.9	24.7	24.7	24.6	24.6	24.6	24.7	24.7	24.6	24.4	24.2	24.1	24.0		
180	25.2	25.2	25.3	25.5	25.5	25.4	25.3	25.3	25.3	25.2	25.2	25.3	25.4	25.4	25.2	25.1	25.0		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:23DEG
Operators:TZH
Test Date:2018-04-08

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.300m [K=1.0000]
Remarks: