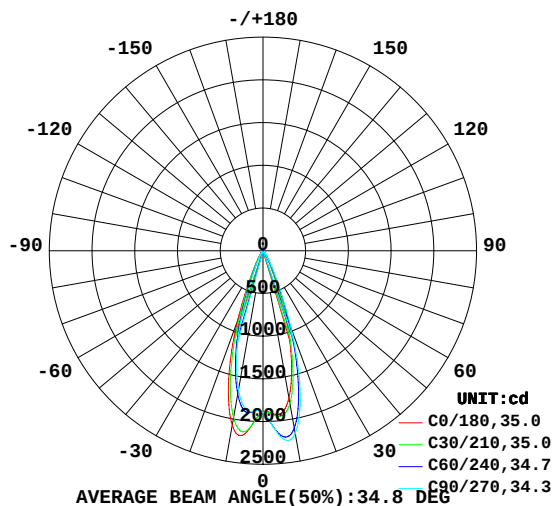


LUMINAIRE PHOTOMETRIC TEST REPORT

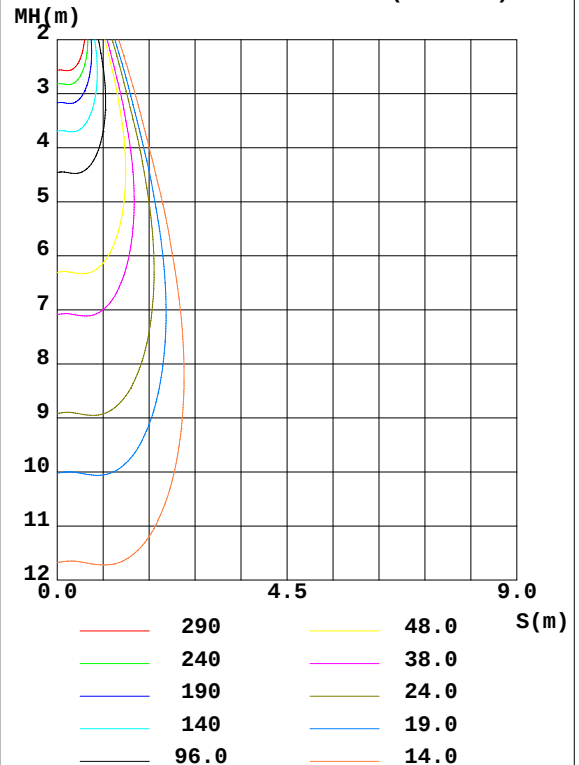
NAME: VN-TLO010-31 BLACK	TYPE: LED TRACK LIGHT	WEIGHT:
SPEC.: CRI90 3000K L	DIM.:	SERIAL No.:
MFR.: 1	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 73.02 lm/W			
MODEL	CMA1306	Imax(cd)	2321	S/MH(C0/180)	0.58
NOMINAL POWER(W)	10	LOR(%)	100.0	S/MH(C90/270)	0.52
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	795.87	η UP, DN(C0-180)	0.6, 54.9
NOMINAL FLUX(lm)	795.868	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.6, 43.9
LAMPS INSIDE	1	η up(%)	1.2	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	230	η down(%)	98.8	CIBSE SHR MAX	0.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT: lx)



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 23DEG
Operators: XYJ
Test Date: 2018-10-10

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:

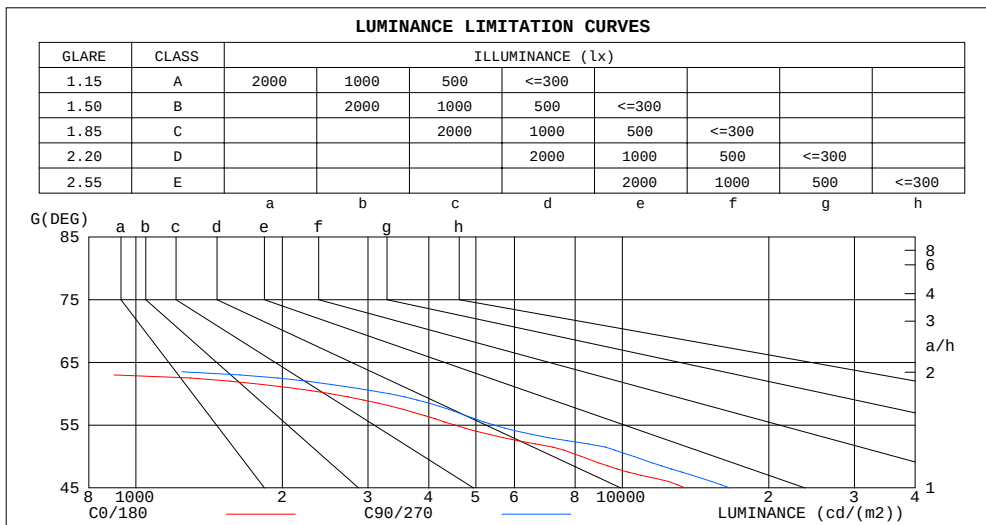
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1749	1874	2172	2259	2073	1915	1651	1605	0- 10	190.2	190.2	23.9, 23.9
20	685.5	771.9	960.3	1060	869.7	726.9	596.3	561.3	10- 20	378.0	568.2	71.4, 71.4
30	104.0	124.0	170.7	193.6	147.6	124.5	91.01	83.57	20- 30	156.6	724.8	91.1, 91.1
40	27.90	30.28	37.64	42.91	35.30	31.60	26.68	24.58	30- 40	41.20	766.0	96.2, 96.2
50	9.493	10.03	12.21	13.63	11.89	10.58	8.902	7.919	40- 50	14.95	780.9	98.1, 98.1
60	2.251	2.250	2.984	3.433	2.846	2.193	1.768	1.619	50- 60	4.946	785.9	98.7, 98.7
70	0	0	0	0	0	0	0	0	60- 70	0.5554	786.4	98.8, 98.8
80	0	0	0	0	0	0	0	0	70- 80	0	786.4	98.8, 98.8
90	0	0	0	0	0	0	0	0	80- 90	0	786.4	98.8, 98.8
100	0	0	0	0	0	0	0	0	90-100	0	786.4	98.8, 98.8
110	0	0	0	0	0	0	0	0	100-110	0	786.4	98.8, 98.8
120	0	0	0	0	0	0	0	0	110-120	0	786.4	98.8, 98.8
130	0.0571	0	0	0	0	0	0	0	120-130	0.0001	786.4	98.8, 98.8
140	3.659	3.236	2.496	2.309	1.404	1.775	2.540	2.796	130-140	0.6788	787.1	98.9, 98.9
150	7.073	6.755	6.334	6.250	5.228	5.575	6.228	6.414	140-150	2.731	789.8	99.2, 99.2
160	7.928	7.889	8.140	8.231	7.635	7.626	7.711	7.585	150-160	3.384	793.2	99.7, 99.7
170	5.916	6.197	6.769	7.044	6.612	6.538	6.073	5.781	160-170	2.079	795.3	99.9, 99.9
180	5.475	5.694	5.534	5.774	5.483	5.694	5.534	5.774	170-180	0.5663	795.9	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT: lm		

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 23DEG
 Operators: XYJ
 Test Date: 2018-10-10

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-TLO010-31 BLACK	TYPE: LED TRACK LIGHT	WEIGHT:
SPEC.: CRI90 3000K L	DIM.:	SERIAL No.:
MFR.: 1	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	0	0
80	0	0
75	0	0
70	0	0
65	0	0
60	2512	3316
55	4523	5449
50	8238	10553
45	13479	16648

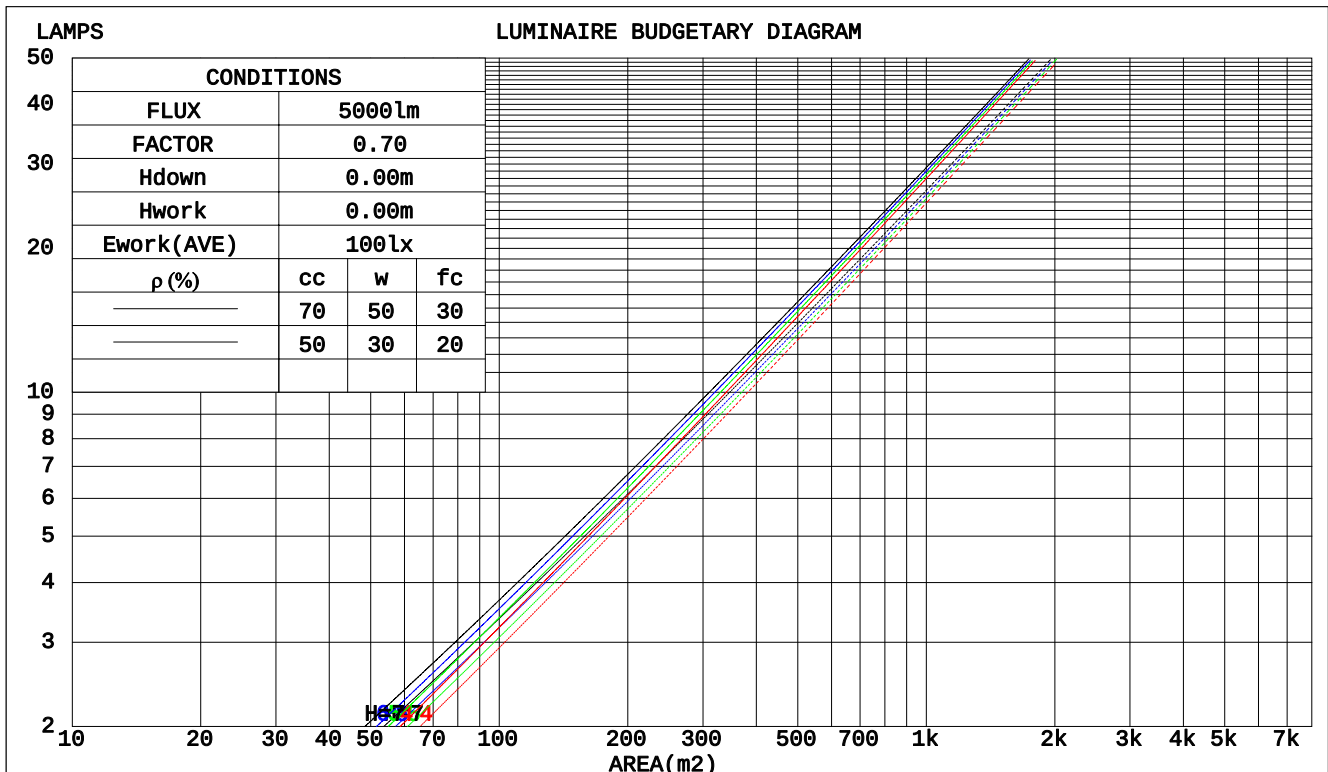
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 23DEG
 Operators: XYJ
 Test Date: 2018-10-10

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-TLO010-31 BLACK	TYPE: LED TRACK LIGHT	WEIGHT:
SPEC.: CRI90 3000K L	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	1.16	1.16	1.16	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	.99
1.0	1.12	1.10	1.08	1.10	1.08	1.06	1.06	1.04	1.03	1.02	1.01	.99	.98	.97	.97	.95
2.0	1.06	1.03	1.00	1.04	1.01	.99	1.01	.99	.97	.98	.96	.94	.95	.94	.92	.91
3.0	1.01	.97	.94	.99	.96	.93	.97	.94	.91	.94	.92	.90	.92	.90	.88	.87
4.0	.96	.92	.89	.95	.91	.88	.93	.90	.87	.91	.88	.86	.89	.87	.85	.83
5.0	.92	.87	.84	.91	.87	.84	.89	.86	.83	.88	.85	.82	.86	.83	.81	.80
6.0	.88	.84	.80	.87	.83	.80	.86	.82	.79	.85	.81	.79	.83	.80	.78	.77
7.0	.85	.80	.77	.84	.80	.77	.83	.79	.76	.82	.78	.76	.81	.78	.75	.74
8.0	.82	.77	.74	.81	.77	.74	.80	.76	.73	.79	.75	.73	.78	.75	.73	.71
9.0	.79	.74	.71	.78	.74	.71	.77	.73	.71	.76	.73	.70	.76	.72	.70	.69
10.0	.76	.71	.68	.75	.71	.68	.75	.71	.68	.74	.70	.68	.73	.70	.68	.67



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 23DEG
Operators: XYJ
Test Date: 2018-10-10

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-TLO010-31 BLACK	TYPE:LED TRACK LIGHT	WEIGHT:
SPEC.:CRI90 3000K L	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	.148	.084	.027	.141	.081	.026	.128	.073	.023	.116	.067	.021	.105	.061	.020		
2.0	.139	.076	.023	.133	.073	.023	.122	.068	.021	.112	.063	.020	.102	.058	.018		
3.0	.130	.069	.021	.125	.067	.020	.116	.063	.019	.107	.059	.018	.100	.055	.017		
4.0	.123	.064	.019	.119	.062	.018	.111	.059	.018	.103	.055	.017	.096	.052	.016		
5.0	.116	.059	.017	.113	.058	.017	.106	.055	.016	.099	.052	.016	.093	.050	.015		
6.0	.110	.055	.016	.107	.054	.016	.101	.052	.015	.096	.050	.015	.091	.048	.014		
7.0	.105	.052	.015	.102	.051	.015	.097	.049	.014	.092	.047	.014	.088	.046	.013		
8.0	.100	.049	.014	.098	.048	.014	.093	.047	.013	.089	.045	.013	.085	.044	.013		
9.0	.096	.047	.013	.094	.046	.013	.090	.044	.013	.086	.043	.012	.082	.042	.012		
10.0	.092	.044	.012	.090	.044	.012	.087	.042	.012	.083	.041	.012	.080	.040	.012		

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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.200	.200	.200	.171	.171	.171	.116	.116	.116	.067	.067	.067	.021	.021	.021	
1.0	.178	.167	.156	.153	.143	.134	.104	.098	.093	.060	.057	.054	.019	.018	.017	
2.0	.161	.142	.126	.138	.122	.109	.094	.084	.076	.054	.049	.044	.017	.016	.014	
3.0	.147	.123	.103	.126	.106	.090	.086	.073	.063	.050	.043	.037	.016	.014	.012	
4.0	.135	.107	.086	.116	.093	.075	.080	.065	.053	.046	.038	.031	.015	.012	.010	
5.0	.125	.095	.073	.107	.082	.064	.074	.058	.045	.043	.034	.027	.014	.011	.009	
6.0	.117	.086	.063	.100	.074	.055	.069	.052	.039	.040	.031	.023	.013	.010	.008	
7.0	.109	.078	.055	.094	.067	.048	.065	.047	.034	.038	.028	.020	.012	.009	.007	
8.0	.103	.071	.049	.089	.062	.043	.061	.043	.030	.036	.026	.018	.012	.008	.006	
9.0	.098	.066	.044	.084	.057	.038	.058	.040	.027	.034	.024	.016	.011	.008	.005	
10.0	.093	.061	.040	.080	.053	.034	.056	.037	.025	.032	.022	.015	.011	.007	.005	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:23DEG
Operators:XYJ
Test Date:2018-10-10

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-TL0010-31 BLACK						TYPE:LED TRACK LIGHT			WEIGHT:		
SPEC.:CRI90 3000K L						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	11.8	12.5	12.0	12.7	12.8	13.8	14.5	14.1	14.7	14.9	
3H	11.6	12.3	11.9	12.5	12.7	13.7	14.3	13.9	14.5	14.8	
4H	11.5	12.1	11.8	12.4	12.6	13.6	14.2	13.9	14.4	14.7	
6H	11.4	12.0	11.7	12.3	12.5	13.5	14.1	13.8	14.3	14.6	
8H	11.4	12.0	11.7	12.2	12.5	13.4	14.0	13.8	14.3	14.6	
12H	11.3	11.9	11.7	12.2	12.5	13.4	14.0	13.7	14.2	14.5	
4H 2H	11.6	12.2	11.8	12.4	12.7	13.6	14.2	13.9	14.5	14.7	
3H	11.4	11.9	11.7	12.2	12.5	13.4	14.0	13.8	14.3	14.6	
4H	11.3	11.8	11.6	12.1	12.4	13.3	13.8	13.7	14.1	14.5	
6H	11.2	11.6	11.6	12.0	12.3	13.2	13.7	13.6	14.0	14.4	
8H	11.1	11.5	11.5	11.9	12.3	13.2	13.6	13.6	14.0	14.3	
12H	11.1	11.5	11.5	11.8	12.3	13.1	13.5	13.5	13.9	14.3	
8H 4H	11.1	11.5	11.5	11.9	12.3	13.2	13.6	13.6	14.0	14.3	
6H	11.0	11.4	11.5	11.8	12.2	13.1	13.4	13.5	13.8	14.2	
8H	11.0	11.3	11.4	11.7	12.2	13.0	13.3	13.5	13.7	14.2	
12H	10.9	11.1	11.4	11.6	12.1	12.9	13.2	13.4	13.7	14.1	
12H 4H	11.1	11.5	11.5	11.8	12.3	13.1	13.5	13.5	13.9	14.3	
6H	11.0	11.3	11.4	11.7	12.2	13.0	13.3	13.5	13.7	14.2	
8H	10.9	11.1	11.4	11.6	12.1	12.9	13.2	13.4	13.7	14.1	
Variations with the observer position at spacings:											
S = 1.0H	+ 2.4 / - 7.2					+ 3.1 / - 7.5					
1.5H	+ 3.4 / - 5.7					+ 4.5 / - 5.4					
2.0H	+ 5.0 / -39.4					+ 5.0 / -15.1					

CIE Pub.117, 795.9 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -0.8)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:23DEG
Operators:XYJ
Test Date:2018-10-10

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-TLO010-31 BLACK	TYPE:LED TRACK LIGHT	WEIGHT:
SPEC.:CRI90 3000K L	DIM.:	SERIAL No.:
MFR.: 1	SUR.:	Shielding Angle:

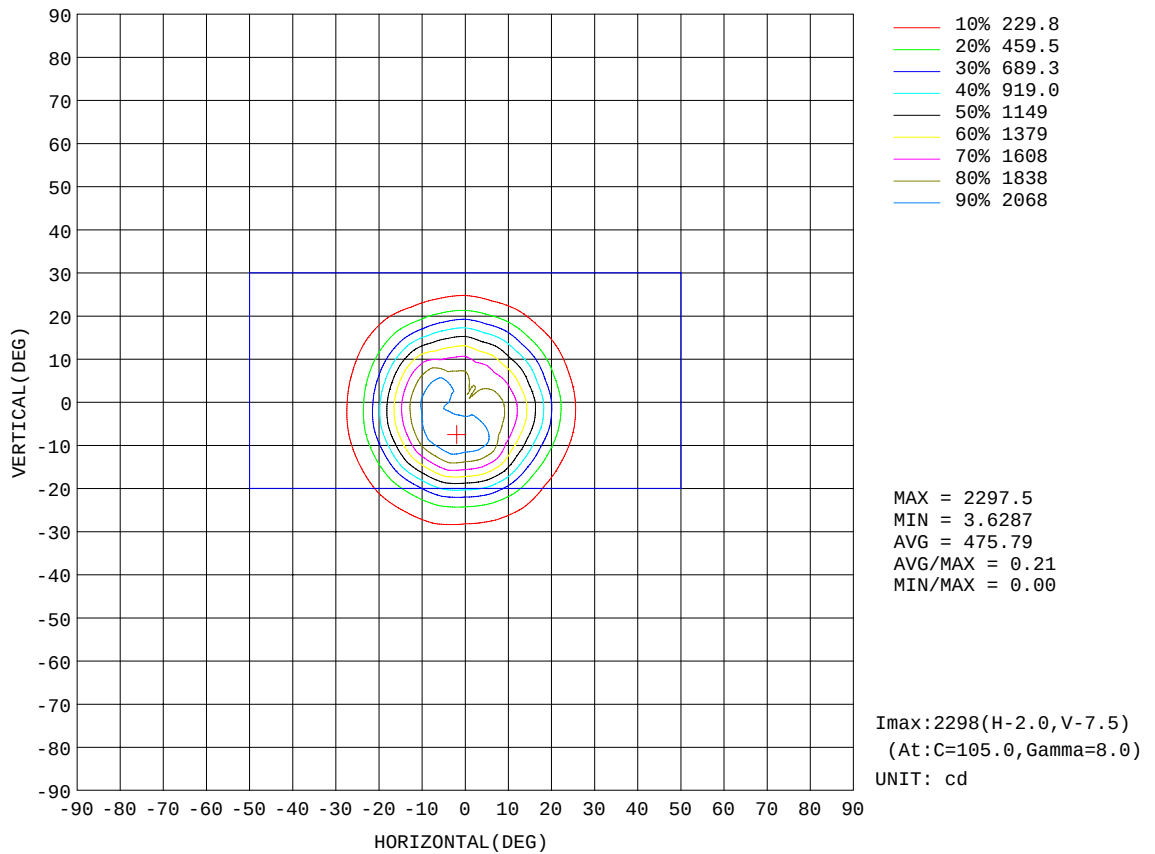
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	89	83	80	89	83	80	88	83	79	76
0.80	96	91	87	96	91	87	94	90	87	83
1.00	100	95	92	100	95	91	98	94	91	87
1.25	104	99	96	103	99	96	101	97	95	91
1.50	107	102	99	105	101	99	103	100	97	93
2.00	109	105	102	108	104	101	105	102	100	94
2.50	111	107	104	109	106	103	106	103	101	95
3.00	112	109	106	110	107	105	107	104	103	96
4.00	114	111	109	112	110	108	108	106	105	98
5.00	115	113	111	113	111	110	109	108	106	98
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004										
Suspended										
SHRNOM = 1.25										

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:23DEG
 Operators:XYJ
 Test Date:2018-10-10

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-TLO010-31 BLACK	TYPE: LED TRACK LIGHT	WEIGHT:
SPEC.: CRI90 3000K L	DIM.:	SERIAL No.:
MFR.: 1	SUR.:	Shielding Angle:

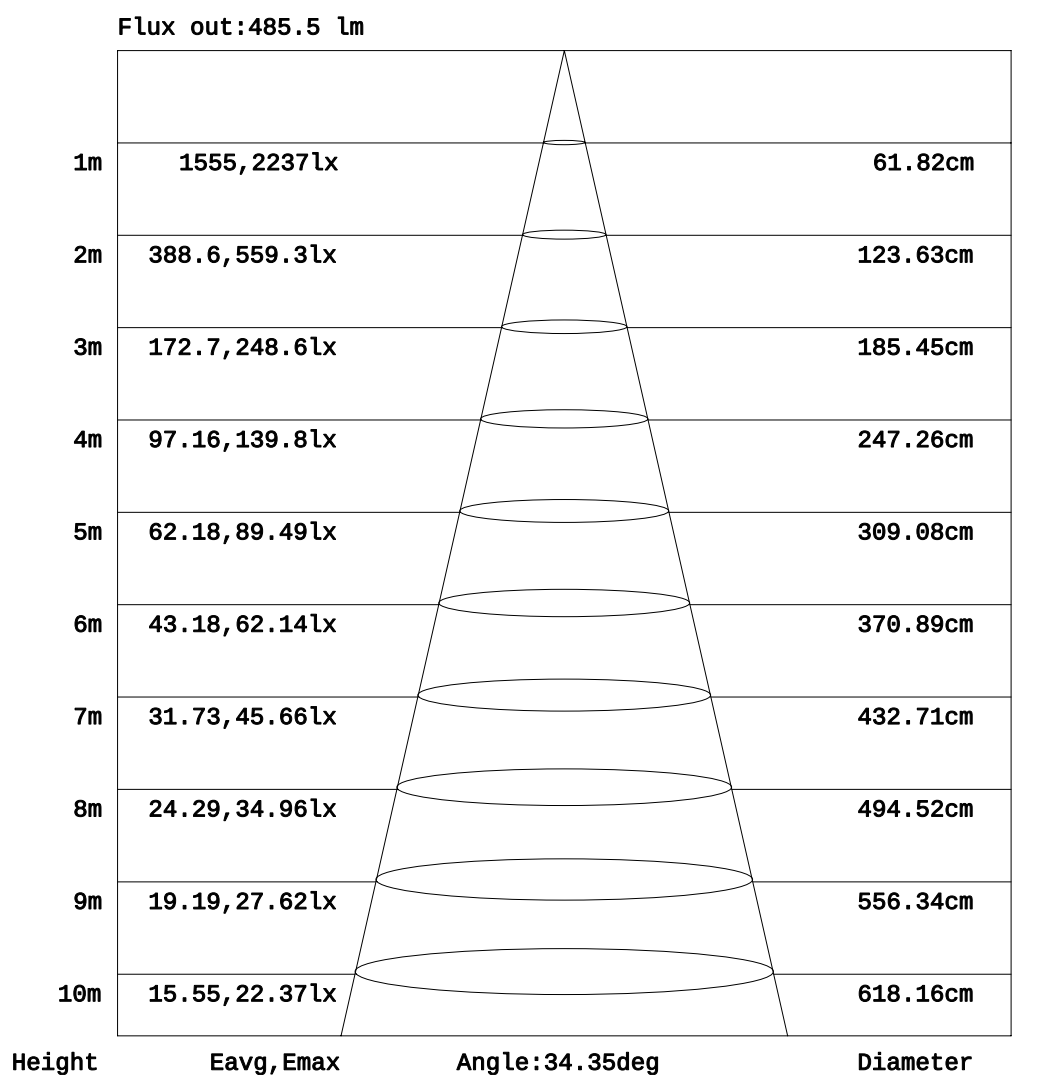


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 23DEG
Operators: XYJ
Test Date: 2018-10-10

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-TLO010-31 BLACK	TYPE: LED TRACK LIGHT	WEIGHT:
SPEC.: CRI90 3000K L	DIM.:	SERIAL No.:
MFR.: 1	SUR.:	Shielding Angle:



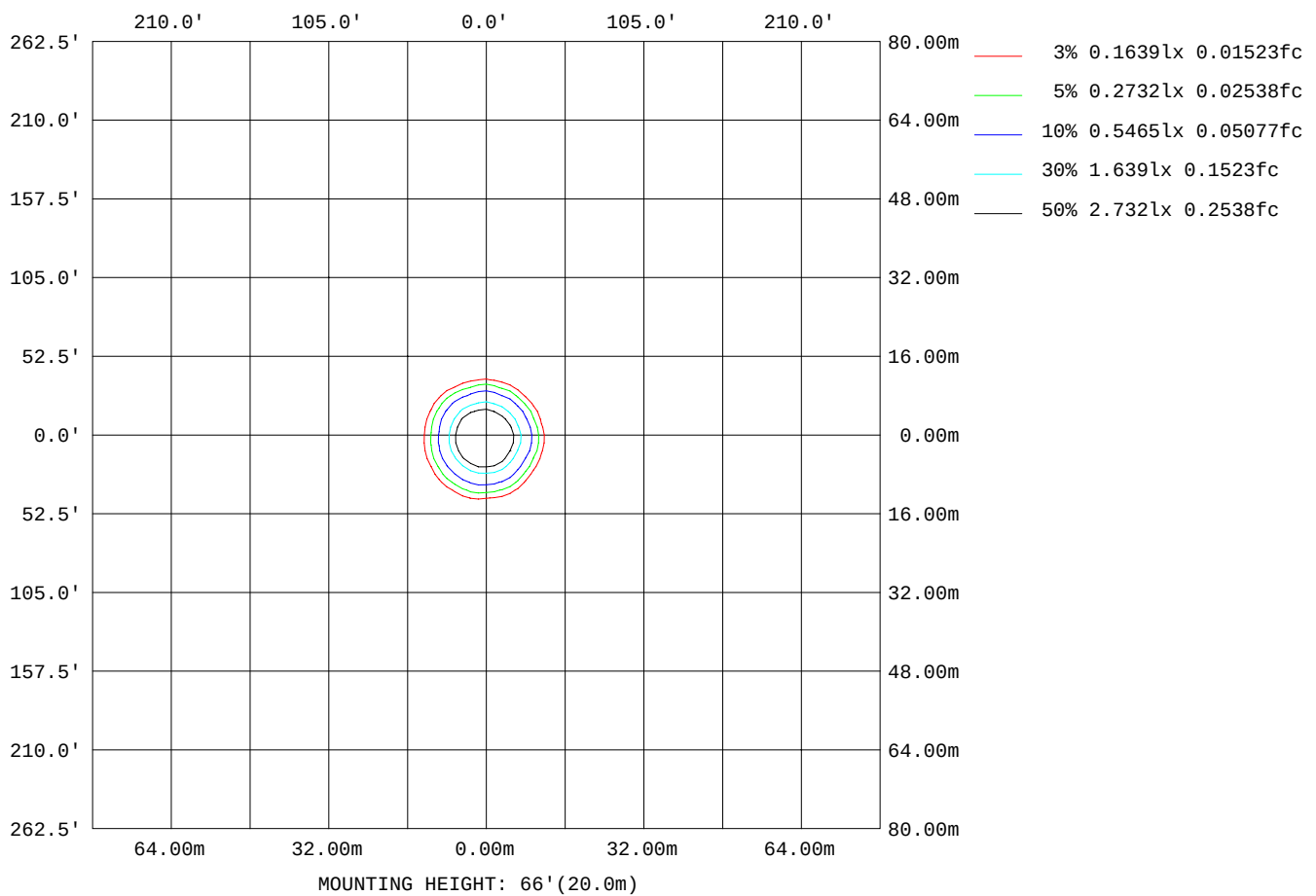
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 23DEG
 Operators: XYJ
 Test Date: 2018-10-10

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-TL0010-31 BLACK	TYPE: LED TRACK LIGHT	WEIGHT:
SPEC.: CRI90 3000K L	DIM.:	SERIAL No.:
MFR.: 1	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 23DEG
Operators: XYJ
Test Date: 2018-10-10

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-TLO010-31 BLACK	TYPE:LED TRACK LIGHT	WEIGHT:
SPEC.:CRI90 3000K L	DIM.:	SERIAL No.:
MFR.: 1	SUR.:	Shielding Angle:

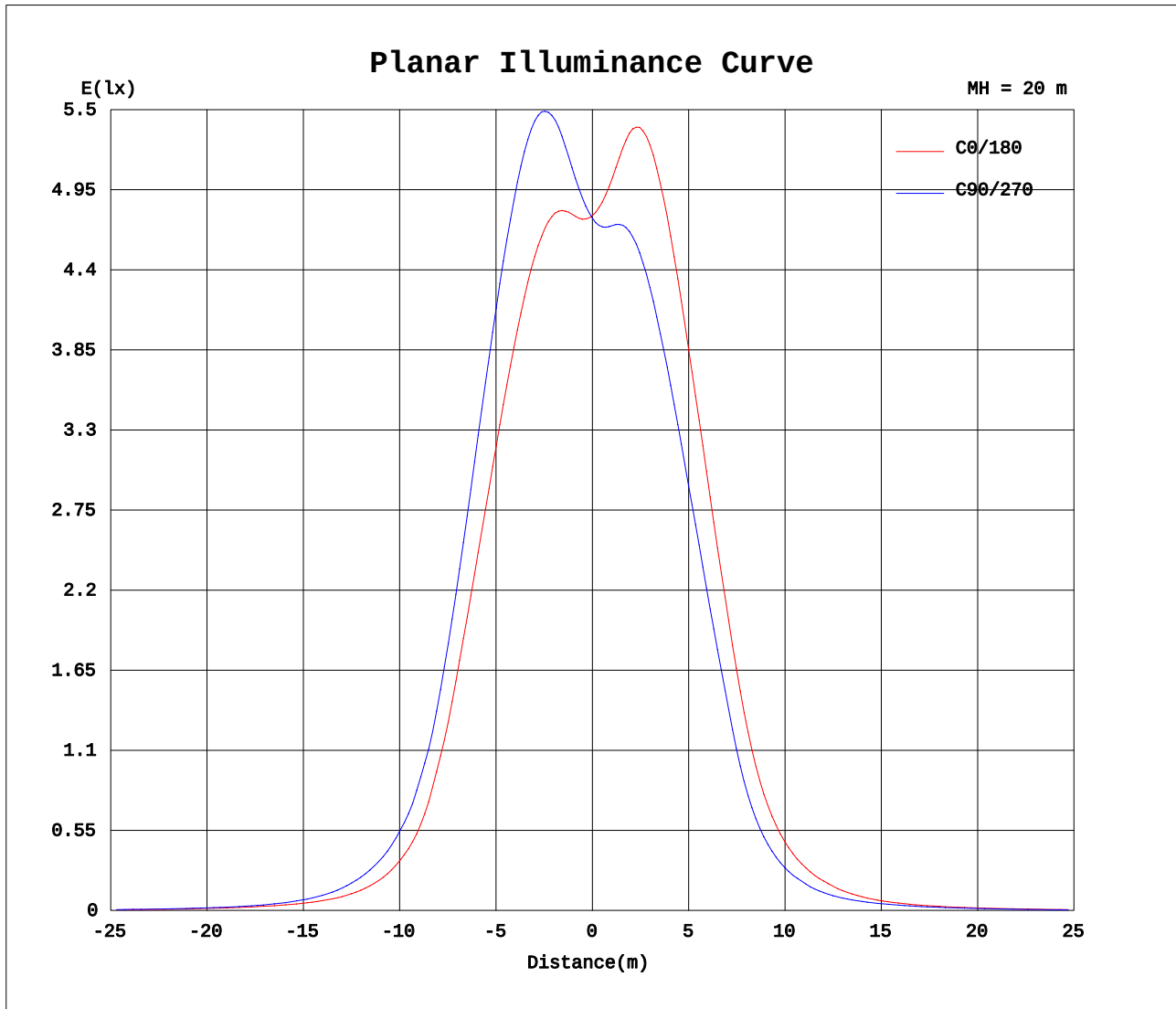
AvgL	cd/m2
L_0~180(65)av	0
L_0~180(75)av	0
L_0~180(85)av	0
L_90~270(65)av	0
L_90~270(75)av	0
L_90~270(85)av	0
L_45(65)av	29
L_45(75)av	0
L_45(85)av	0

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:23DEG
Operators:XYJ
Test Date:2018-10-10

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: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 23DEG
 Operators: XYJ
 Test Date: 2018-10-10

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-TLO010-31 BLACK	TYPE:LED TRACK LIGHT	WEIGHT:
SPEC.:CRI90 3000K L	DIM.:	SERIAL No.:
MFR.: 1	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	1892	1892	1892	1892	1892	1892	1892	1892	1892	1892	1892	1892	1892	1892	1892	1892	1892	1892	1892
5	1926	1929	1946	1959	2150	2162	2165	2218	2195	2189	2145	2072	2122	2123	2109	2093	1904	1899	1888
10	1749	1785	1817	1874	2110	2170	2172	2270	2233	2259	2185	2115	2073	2019	1983	1915	1704	1664	1651
15	1276	1321	1336	1407	1597	1669	1678	1796	1749	1777	1687	1640	1554	1487	1455	1385	1226	1179	1171
20	685	723	711	772	901	963	960	1048	1018	1060	990	965	870	798	769	727	637	595	596
25	252	270	272	297	365	394	393	441	424	443	405	391	345	322	316	292	236	218	218
30	104	111	112	124	155	168	171	197	189	194	176	165	148	138	136	124	97.9	91.4	91.0
35	49.6	51.0	52.3	55.2	68.8	74.3	76.3	89.6	86.8	89.3	80.8	75.7	68.2	64.0	62.9	57.9	48.4	46.0	45.3
40	27.9	28.6	28.8	30.3	34.9	37.0	37.6	42.6	41.7	42.9	39.8	38.6	35.3	34.0	33.6	31.6	28.7	27.5	26.7
45	17.1	17.3	17.3	18.0	20.1	21.0	21.2	23.3	23.0	23.6	22.4	22.1	20.6	19.9	20.0	18.7	17.5	17.0	16.5
50	9.49	9.51	9.52	10.0	11.6	12.1	12.2	13.4	13.3	13.6	13.0	12.8	11.9	11.4	11.4	10.6	9.77	9.24	8.90
55	4.65	4.42	4.20	4.44	5.51	5.67	5.62	6.29	6.24	6.50	6.10	6.01	5.52	5.16	4.98	4.58	4.07	3.89	3.84
60	2.25	2.19	2.01	2.25	2.96	3.06	2.98	3.35	3.27	3.43	3.19	3.09	2.85	2.58	2.36	2.19	1.91	1.76	1.77
65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.09	0.01	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	1.80	1.65	1.58	1.40	0.89	0.75	0.72	0.52	0.58	0.53	0.68	0.79	0.00	0.00	0.00	0.05	0.50	0.65	0.67
140	3.66	3.50	3.43	3.24	2.67	2.53	2.50	2.28	2.35	2.31	2.47	2.59	1.40	1.53	1.61	1.78	2.35	2.52	2.54
145	5.50	5.35	5.28	5.11	4.62	4.48	4.45	4.28	4.33	4.30	4.45	4.56	3.28	3.41	3.49	3.67	4.27	4.43	4.45
150	7.07	6.93	6.90	6.76	6.44	6.35	6.33	6.23	6.25	6.25	6.35	6.45	5.23	5.34	5.42	5.57	6.06	6.23	6.23
155	7.96	7.89	7.86	7.80	7.68	7.70	7.71	7.69	7.66	7.69	7.75	7.80	6.85	6.92	6.96	7.04	7.34	7.47	7.47
160	7.93	7.89	7.87	7.89	8.02	8.11	8.14	8.25	8.17	8.23	8.22	8.27	7.63	7.64	7.66	7.63	7.71	7.77	7.71
165	7.01	7.04	7.02	7.18	7.57	7.67	7.72	7.91	7.87	7.87	7.78	7.79	7.37	7.37	7.30	7.31	7.25	7.19	7.10
170	5.92	5.96	6.09	6.20	6.59	6.71	6.77	7.00	6.92	7.04	6.99	6.84	6.61	6.64	6.65	6.54	6.23	6.18	6.07
175	5.22	5.25	5.39	5.57	5.90	5.90	5.89	6.08	6.08	6.24	6.16	5.98	5.86	5.93	6.05	6.02	5.70	5.59	5.43
180	5.48	5.51	5.58	5.69	5.63	5.57	5.53	5.57	5.59	5.77	5.62	5.49	5.48	5.52	5.58	5.69	5.63	5.57	5.53

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:23DEG
Operators:XYJ
Test Date:2018-10-10

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-TLO010-31 BLACK	TYPE:LED TRACK LIGHT	WEIGHT:
SPEC.:CRI90 3000K L	DIM.:	SERIAL No.:
MFR.: 1	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEC)	285	300	315	330	345														
γ (DEC)																			
0	1892	1892	1892	1892	1892														
5	1835	1845	1848	1886	1936														
10	1589	1611	1605	1660	1712														
15	1109	1132	1119	1172	1203														
20	558	572	561	597	609														
25	200	207	202	218	227														
30	83.1	85.4	83.6	90.0	94.4														
35	42.4	42.6	41.8	43.9	45.6														
40	25.3	25.1	24.6	25.3	26.0														
45	15.6	15.3	15.0	15.5	16.0														
50	8.19	8.10	7.92	8.35	8.79														
55	3.58	3.71	3.73	4.11	4.40														
60	1.55	1.66	1.62	1.86	1.97														
65	0.00	0.00	0.00	0.00	0.00														
70	0.00	0.00	0.00	0.00	0.00														
75	0.00	0.00	0.00	0.00	0.00														
80	0.00	0.00	0.00	0.00	0.00														
85	0.00	0.00	0.00	0.00	0.00														
90	0.00	0.00	0.00	0.00	0.00														
95	0.00	0.00	0.00	0.00	0.00														
100	0.00	0.00	0.00	0.00	0.00														
105	0.00	0.00	0.00	0.00	0.00														
110	0.00	0.00	0.00	0.00	0.00														
115	0.00	0.00	0.00	0.00	0.00														
120	0.00	0.00	0.00	0.00	0.00														
125	0.00	0.00	0.00	0.00	0.00														
130	0.00	0.00	0.00	0.00	0.00														
135	0.89	0.82	0.88	0.71	0.59														
140	2.82	2.73	2.80	2.59	2.45														
145	4.73	4.62	4.70	4.51	4.37														
150	6.47	6.33	6.41	6.24	6.14														
155	7.59	7.45	7.48	7.40	7.34														
160	7.73	7.59	7.58	7.56	7.58														
165	7.01	6.95	6.81	6.74	6.82														
170	5.93	5.86	5.78	5.77	5.83														
175	5.45	5.47	5.41	5.21	5.23														
180	5.58	5.59	5.77	5.61	5.50														

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:23DEG
Operators:XYJ
Test Date:2018-10-10

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: