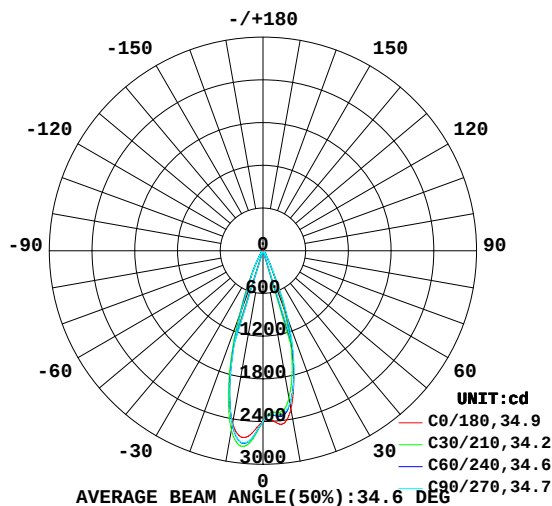


LUMINAIRE PHOTOMETRIC TEST REPORT

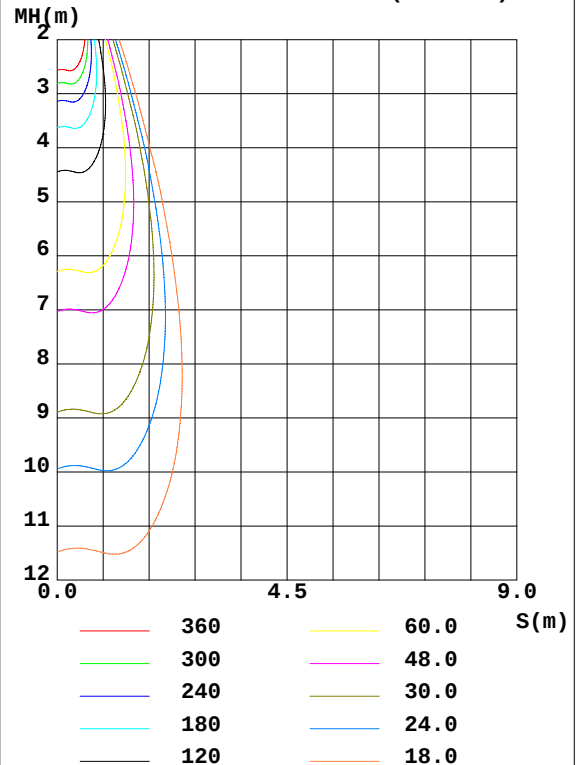
NAME: VN-TL0015-31 BLACK	TYPE: LED TRACK LIGHT	WEIGHT:
SPEC.: CRI90 3000K L	DIM.:	SERIAL No.:
MFR.: 1	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 62.67 lm/W			
MODEL	CMA1306	Imax(cd)	2795	S/MH(C0/180)	0.56
NOMINAL POWER(W)	15	LOR(%)	137.2	S/MH(C90/270)	0.55
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	977.72	η UP, DN(C0-180)	1.0, 65.7
NOMINAL FLUX(lm)	712.834	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.8, 69.6
LAMPS INSIDE	1	η up(%)	1.9	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	230	η down(%)	135.3	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: HTJ
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:

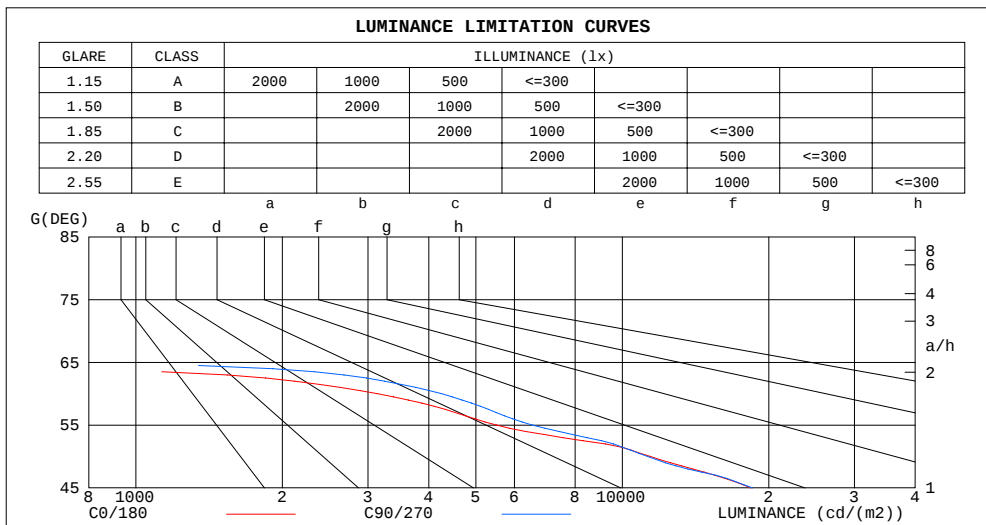
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	2258	2052	2179	2229	2457	2560	2477	2474	0- 10	235.5	235.5	24.1, 33
20	869.1	927.8	1018	1040	971.6	942.8	881.5	882.2	10- 20	457.9	693.4	70.9, 97.3
30	141.1	133.4	151.5	161.6	175.7	187.1	172.5	159.3	20- 30	193.3	886.7	90.7, 124
40	39.12	38.46	38.74	41.14	41.64	42.97	41.47	39.91	30- 40	50.64	937.3	95.9, 131
50	13.39	13.35	13.10	14.37	14.68	15.04	14.40	14.01	40- 50	19.14	956.5	97.8, 134
60	2.866	3.203	3.843	4.427	4.323	4.365	3.816	3.603	50- 60	6.922	963.4	98.5, 135
70	0	0	0	0	0	0	0	0	60- 70	1.015	964.4	98.6, 135
80	0	0	0	0	0	0	0	0	70- 80	0	964.4	98.6, 135
90	0	0	0	0	0	0	0	0	80- 90	0	964.4	98.6, 135
100	0	0	0	0	0	0	0	0	90-100	0	964.4	98.6, 135
110	0	0	0	0	0	0	0	0	100-110	0	964.4	98.6, 135
120	0	0	0	0	0	0	0	0	110-120	0	964.4	98.6, 135
130	0.6060	0.6907	0.4877	0.4276	0	0	0	0	120-130	0.0168	964.4	98.6, 135
140	5.017	5.138	4.897	4.825	2.746	2.567	2.947	3.022	130-140	1.371	965.8	98.8, 135
150	9.365	9.277	9.246	9.212	7.492	7.300	7.715	7.694	140-150	3.837	969.6	99.2, 136
160	10.69	10.42	10.90	10.83	10.30	10.07	10.29	10.09	150-160	4.513	974.2	99.6, 137
170	8.315	8.096	8.581	8.740	8.825	8.993	8.839	8.621	160-170	2.786	976.9	99.9, 137
180	7.519	7.682	7.577	7.833	7.503	7.688	7.581	7.845	170-180	0.7709	977.7	100, 137
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:23DEG
Operators:HTJ
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-TL0015-31 BLACK	TYPE: LED TRACK LIGHT	WEIGHT:
SPEC.: CRI90 3000K L	DIM.:	SERIAL No.:
MFR.: 1	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	0	0
80	0	0
75	0	0
70	0	0
65	0	535
60	3138	4250
55	5515	6530
50	11407	11268
45	18376	18511

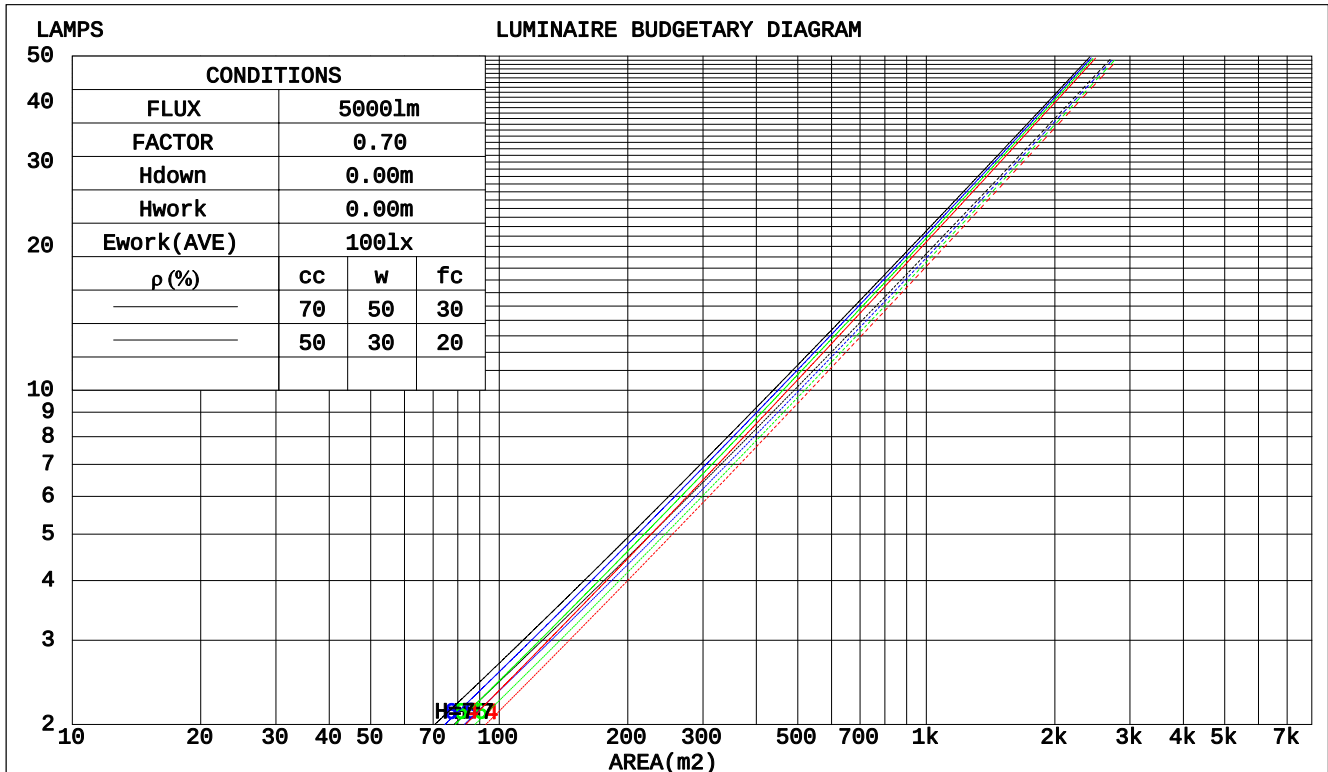
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 23DEG
 Operators: HTJ
 Test Date: 2018-10-10

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-TL0015-31 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	1.63	1.63	1.63	1.59	1.59	1.59	1.51	1.51	1.51	1.45	1.45	1.45	1.38	1.38	1.38	1.35
1.0	1.54	1.51	1.48	1.50	1.48	1.46	1.45	1.43	1.41	1.39	1.38	1.36	1.34	1.33	1.32	1.30
2.0	1.45	1.41	1.37	1.43	1.39	1.35	1.38	1.35	1.32	1.34	1.31	1.29	1.30	1.28	1.26	1.24
3.0	1.38	1.33	1.28	1.36	1.31	1.27	1.33	1.28	1.25	1.29	1.26	1.23	1.26	1.23	1.21	1.19
4.0	1.32	1.26	1.21	1.30	1.25	1.20	1.27	1.23	1.19	1.24	1.21	1.17	1.22	1.19	1.16	1.14
5.0	1.26	1.20	1.15	1.25	1.19	1.15	1.22	1.17	1.13	1.20	1.16	1.12	1.18	1.14	1.11	1.10
6.0	1.21	1.14	1.10	1.20	1.14	1.09	1.18	1.12	1.09	1.16	1.11	1.08	1.14	1.10	1.07	1.05
7.0	1.16	1.10	1.05	1.15	1.09	1.05	1.13	1.08	1.04	1.12	1.07	1.04	1.10	1.06	1.03	1.01
8.0	1.12	1.05	1.01	1.11	1.05	1.01	1.09	1.04	1.00	1.08	1.03	.00	1.07	1.02	.99	.98
9.0	1.08	1.01	.97	1.07	1.01	.97	1.06	1.00	.97	1.04	.00	.96	1.03	.99	.96	.94
10.0	1.04	.98	.94	1.03	.97	.93	1.02	.97	.93	1.01	.96	.93	1.00	.96	.93	.91



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:23DEG
Operators:HTJ
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-TL0015-31 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	.204	.116	.037	.194	.111	.035	.176	.101	.032	.159	.092	.030	.144	.083	.027		
2.0	.191	.105	.032	.183	.101	.031	.168	.093	.029	.154	.086	.027	.141	.080	.025		
3.0	.179	.095	.029	.172	.092	.028	.160	.086	.026	.148	.081	.025	.137	.076	.023		
4.0	.169	.088	.026	.163	.085	.025	.152	.081	.024	.142	.076	.023	.133	.072	.022		
5.0	.160	.081	.024	.155	.080	.023	.145	.076	.022	.137	.072	.021	.128	.069	.021		
6.0	.152	.076	.022	.148	.075	.021	.139	.071	.021	.132	.068	.020	.124	.065	.019		
7.0	.145	.072	.020	.141	.070	.020	.134	.068	.019	.127	.065	.019	.120	.063	.018		
8.0	.138	.068	.019	.135	.066	.019	.128	.064	.018	.122	.062	.018	.117	.060	.017		
9.0	.132	.064	.018	.129	.063	.018	.124	.061	.017	.118	.059	.017	.113	.057	.017		
10.0	.127	.061	.017	.124	.060	.017	.119	.058	.016	.114	.057	.016	.110	.055	.016		

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	.275	.275	.275	.235	.235	.235	.161	.161	.161	.092	.092	.092	.030	.030	.030	
1.0	.246	.230	.216	.211	.198	.186	.144	.136	.129	.083	.079	.075	.027	.025	.024	
2.0	.223	.196	.174	.191	.169	.151	.131	.117	.105	.075	.068	.062	.024	.022	.020	
3.0	.203	.170	.143	.174	.147	.124	.120	.102	.087	.069	.059	.051	.022	.019	.017	
4.0	.187	.149	.120	.161	.129	.105	.110	.090	.074	.064	.053	.044	.021	.017	.014	
5.0	.173	.133	.103	.149	.115	.089	.103	.080	.063	.059	.047	.037	.019	.015	.012	
6.0	.162	.119	.089	.139	.103	.077	.096	.072	.055	.056	.043	.032	.018	.014	.011	
7.0	.152	.108	.078	.131	.094	.068	.090	.066	.048	.053	.039	.029	.017	.013	.009	
8.0	.144	.099	.069	.124	.086	.060	.086	.060	.043	.050	.036	.025	.016	.012	.008	
9.0	.136	.092	.062	.117	.080	.054	.081	.056	.038	.047	.033	.023	.015	.011	.008	
10.0	.130	.085	.056	.112	.074	.049	.078	.052	.035	.045	.031	.021	.015	.010	.007	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:23DEG
Operators:HTJ
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-TL0015-31 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	12.9	13.6	13.1	13.8	14.0	13.3	14.0	13.5	14.2	14.4	
3H	12.8	13.4	13.0	13.6	13.8	13.2	13.8	13.4	14.0	14.2	
4H	12.7	13.3	13.0	13.5	13.8	13.1	13.7	13.4	13.9	14.2	
6H	12.6	13.2	12.9	13.4	13.7	13.0	13.6	13.3	13.8	14.1	
8H	12.5	13.1	12.9	13.4	13.7	12.9	13.5	13.3	13.8	14.1	
12H	12.5	13.0	12.8	13.3	13.6	12.9	13.4	13.2	13.7	14.0	
4H 2H	12.7	13.4	13.0	13.6	13.8	13.1	13.8	13.4	14.0	14.2	
3H	12.5	13.1	12.9	13.4	13.7	12.9	13.5	13.3	13.8	14.1	
4H	12.4	12.9	12.8	13.3	13.6	12.8	13.3	13.2	13.7	14.0	
6H	12.3	12.8	12.7	13.1	13.5	12.7	13.2	13.1	13.5	13.9	
8H	12.3	12.7	12.7	13.1	13.5	12.7	13.1	13.1	13.5	13.9	
12H	12.2	12.6	12.7	13.0	13.4	12.6	13.0	13.0	13.4	13.8	
8H 4H	12.3	12.7	12.7	13.1	13.5	12.7	13.1	13.1	13.5	13.9	
6H	12.2	12.5	12.6	12.9	13.4	12.6	12.9	13.0	13.3	13.8	
8H	12.1	12.4	12.6	12.8	13.3	12.5	12.8	13.0	13.2	13.7	
12H	12.0	12.3	12.5	12.8	13.3	12.4	12.7	12.9	13.2	13.7	
12H 4H	12.2	12.6	12.7	13.0	13.4	12.6	13.0	13.0	13.4	13.8	
6H	12.1	12.4	12.6	12.8	13.3	12.5	12.8	13.0	13.2	13.7	
8H	12.0	12.3	12.5	12.8	13.3	12.4	12.7	12.9	13.2	13.7	
Variations with the observer position at spacings:											
S = 1.0H	+ 2.6 / - 7.4					+ 2.5 / - 6.6					
1.5H	+ 3.6 / - 5.5					+ 3.5 / - 5.1					
2.0H	+ 5.0 / - 9.6					+ 4.8 / - 8.0					

CIE Pub.117, 712.8 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = -1.2$)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:23DEG
Operators:HTJ
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-TL0015-31 BLACK	TYPE:LED TRACK LIGHT	WEIGHT:
SPEC.:CRI90 3000K L	DIM.:	SERIAL No.:
MFR.: 1	SUR.:	Shielding Angle:

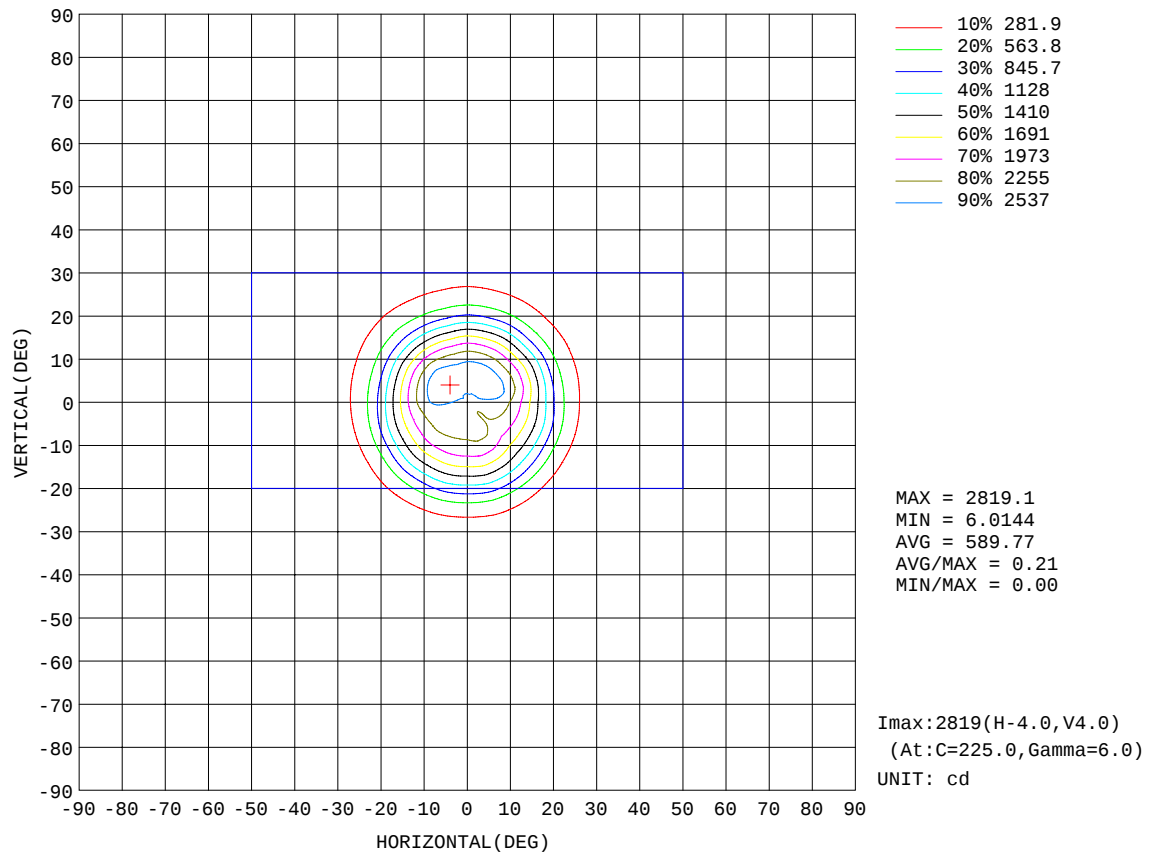
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	122	114	109	121	114	109	120	113	109	104
0.80	132	124	120	131	124	119	129	123	119	114
1.00	137	130	126	136	130	125	134	129	124	119
1.25	143	136	131	141	135	131	138	133	130	124
1.50	146	140	136	144	139	135	141	137	133	127
2.00	149	144	140	147	142	139	143	139	136	129
2.50	152	147	143	149	145	141	145	141	139	130
3.00	153	149	146	151	147	144	146	143	141	132
4.00	156	153	150	153	150	148	148	146	144	134
5.00	158	155	153	155	152	150	149	147	146	135
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:HTJ
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-TL0015-31 BLACK	TYPE:LED TRACK LIGHT	WEIGHT:
SPEC.:CRI90 3000K L	DIM.:	SERIAL No.:
MFR.: 1	SUR.:	Shielding Angle:

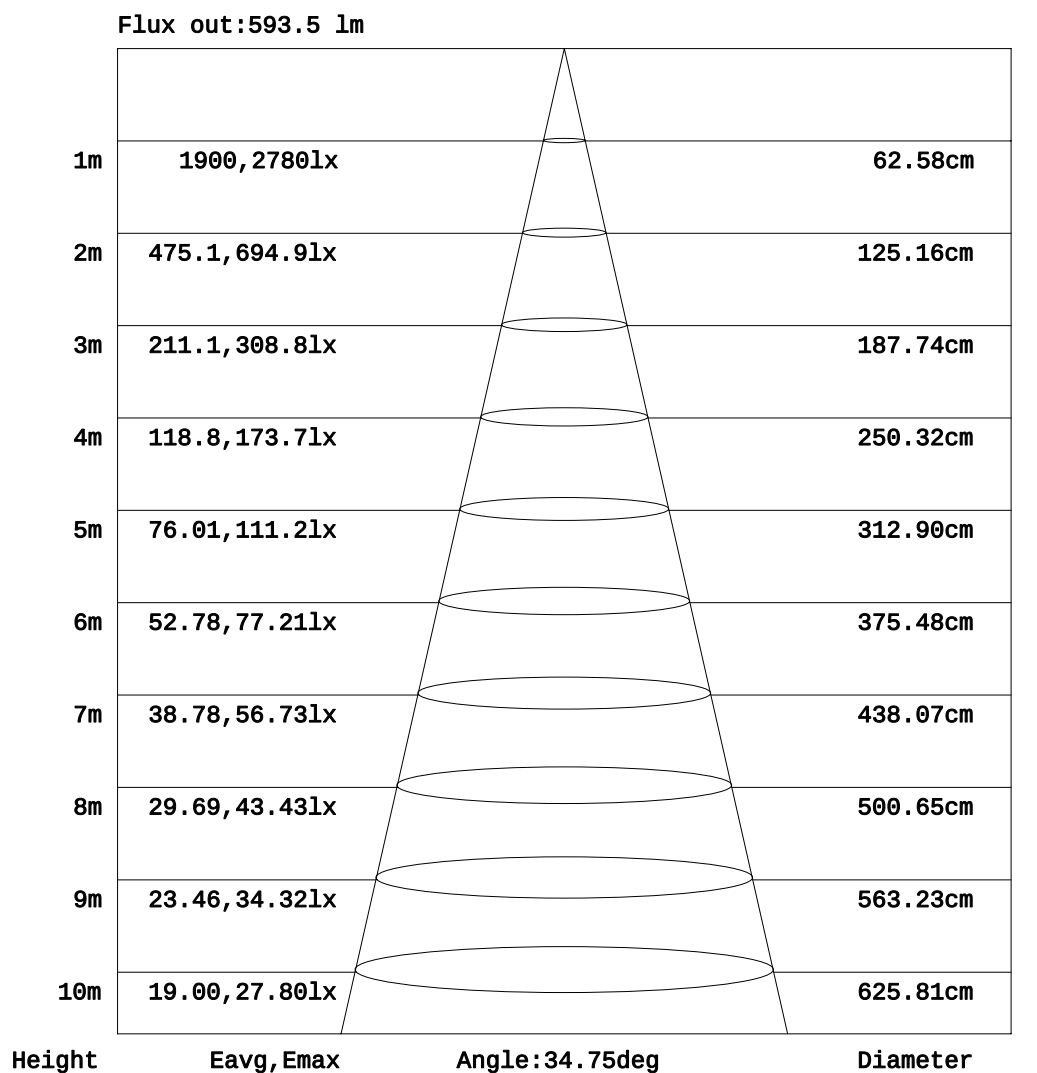


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:23DEG
Operators:HTJ
Test Date:2018-10-10

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-TL0015-31 BLACK	TYPE: LED TRACK LIGHT	WEIGHT:
SPEC.: CRI90 3000K L	DIM.:	SERIAL No.:
MFR.: 1	SUR.:	Shielding Angle:



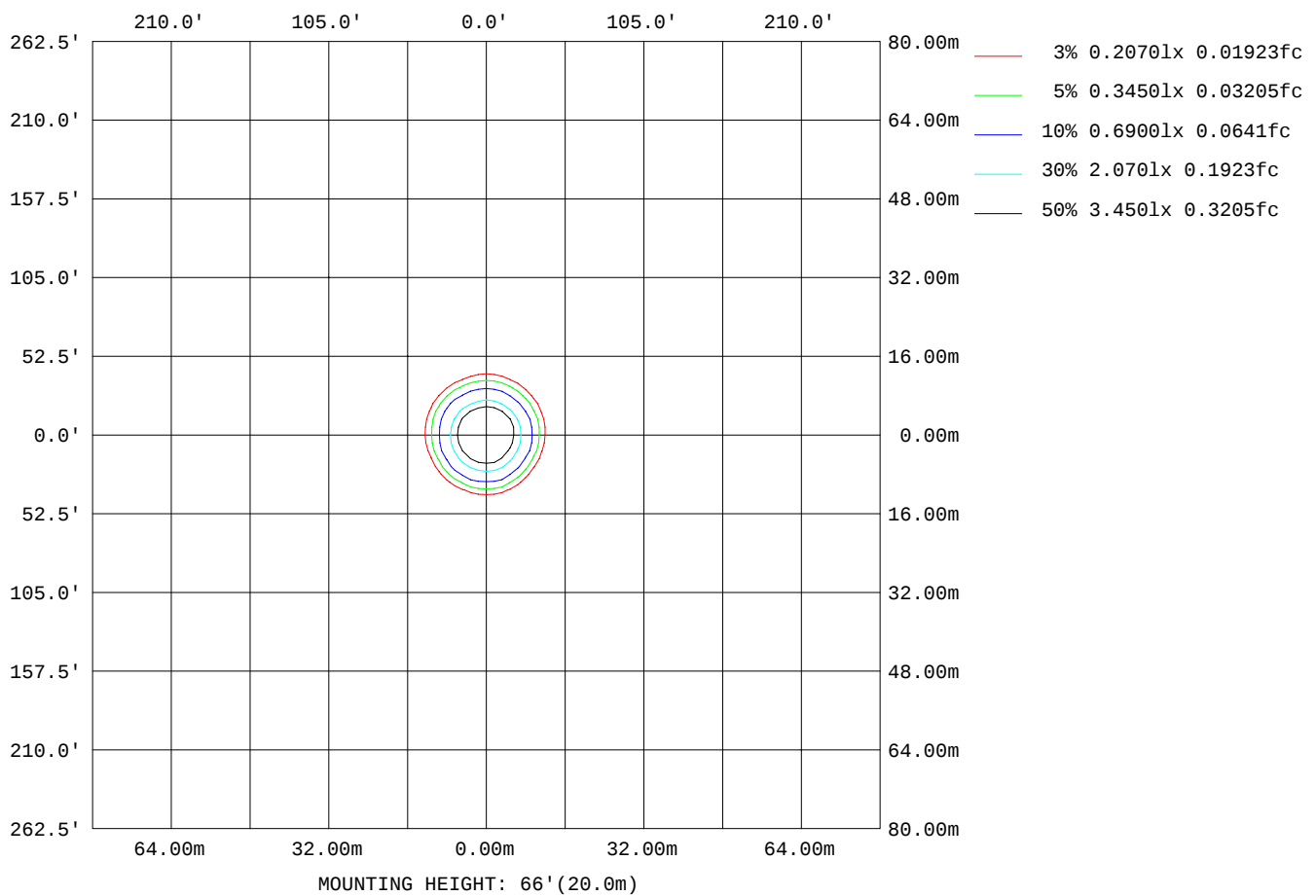
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 23DEG
 Operators: HTJ
 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-TL0015-31 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: HTJ
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-TL0015-31 BLACK	TYPE:LED TRACK LIGHT	WEIGHT:
SPEC.:CRI90 3000K L	DIM.:	SERIAL No.:
MFR.: 1	SUR.:	Shielding Angle:

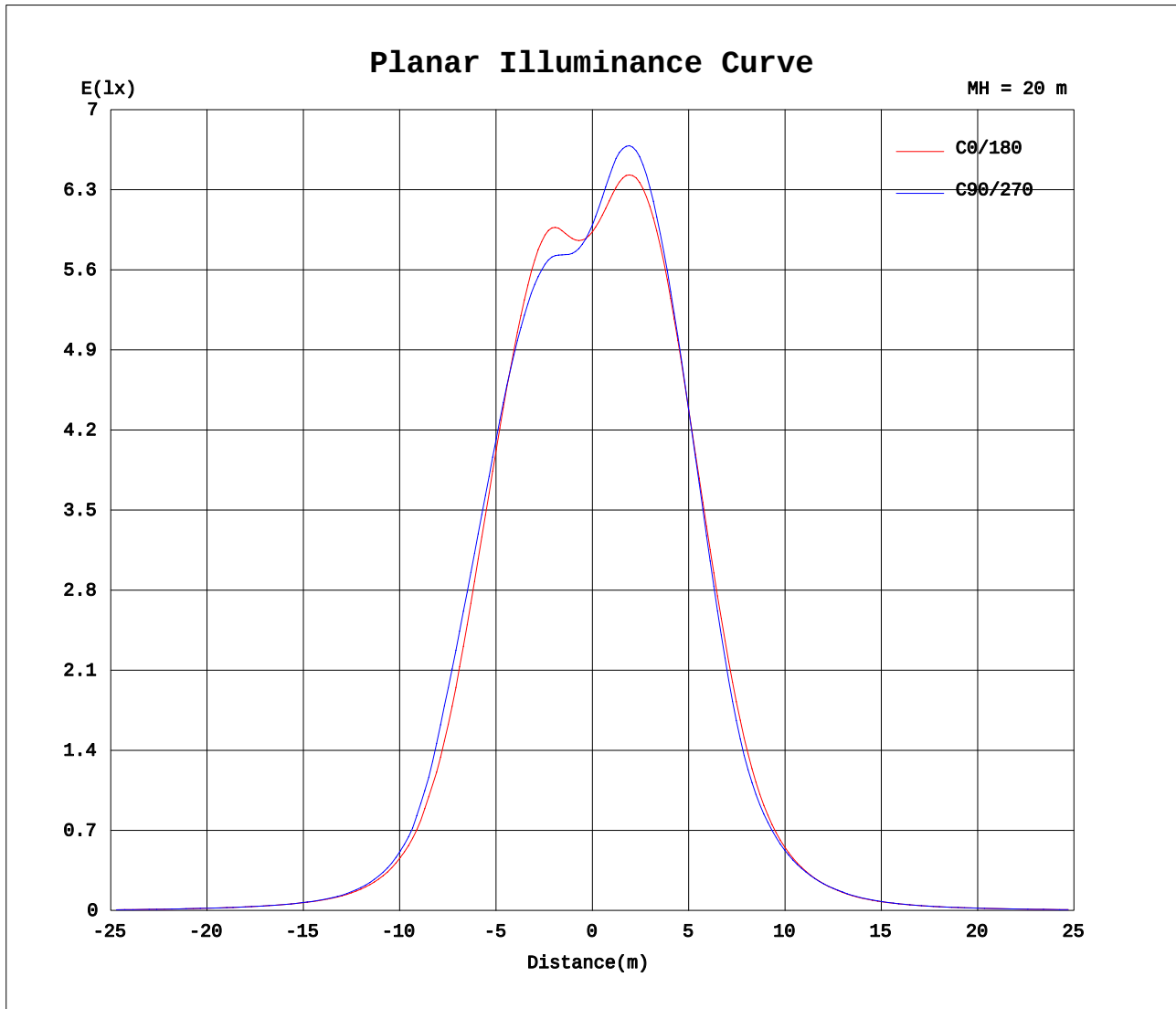
AvgL	cd/m2
L_0~180(65)av	0
L_0~180(75)av	0
L_0~180(85)av	0
L_90~270(65)av	267
L_90~270(75)av	0
L_90~270(85)av	0
L_45(65)av	350
L_45(75)av	0
L_45(85)av	0

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:23DEG
Operators:HTJ
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: HTJ
 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-TL0015-31 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	2396	2396	2396	2396	2396	2396	2396	2396	2396	2396	2396	2396	2396	2396	2396	2396	2396	2396	2396
5	2437	2336	2279	2214	2333	2331	2318	2301	2336	2346	2386	2414	2625	2691	2747	2782	2708	2683	2702
10	2258	2169	2100	2052	2184	2209	2179	2176	2207	2229	2247	2291	2457	2502	2557	2560	2482	2434	2477
15	1635	1610	1572	1562	1663	1713	1685	1693	1705	1725	1714	1738	1787	1799	1840	1809	1757	1704	1756
20	869	908	902	928	997	1045	1018	1032	1026	1040	1004	1005	972	956	981	943	893	844	882
25	343	345	334	345	373	401	388	400	398	409	392	400	408	410	425	416	382	364	377
30	141	137	132	133	147	156	151	155	157	162	159	164	176	180	189	187	171	165	172
35	68.1	66.1	64.3	64.5	68.5	71.0	69.1	70.5	71.7	73.9	73.0	74.8	79.5	81.4	85.3	84.7	78.9	77.0	80.8
40	39.1	38.5	38.2	38.5	39.1	39.6	38.7	39.2	39.9	41.1	40.9	41.2	41.6	42.0	43.4	43.0	40.9	40.2	41.5
45	23.7	23.3	23.5	23.8	24.1	24.2	23.7	23.9	24.3	25.1	25.1	24.8	25.0	25.0	25.5	25.1	24.1	23.7	24.4
50	13.4	13.3	13.4	13.4	13.5	13.5	13.1	13.3	13.7	14.4	14.4	14.3	14.7	14.9	15.3	15.0	14.3	14.0	14.4
55	5.78	5.83	5.95	6.08	6.40	6.73	6.77	7.19	7.48	7.82	7.63	7.31	7.55	7.72	8.10	7.88	7.22	7.00	7.28
60	2.87	3.04	3.17	3.20	3.57	3.82	3.84	4.05	4.22	4.43	4.39	4.22	4.32	4.38	4.62	4.36	3.95	3.68	3.82
65	0.00	0.00	0.01	0.20	0.09	0.52	0.41	0.80	0.59	0.87	0.52	0.57	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	0.61	0.64	0.73	0.69	0.51	0.40	0.49	0.45	0.49	0.43	0.49	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	2.72	2.76	2.89	2.83	2.62	2.47	2.61	2.54	2.60	2.52	2.61	2.51	0.64	0.60	0.53	0.55	0.78	0.91	0.85
140	5.02	5.07	5.20	5.14	4.91	4.77	4.90	4.83	4.90	4.82	4.90	4.81	2.75	2.67	2.56	2.57	2.87	3.03	2.95
145	7.34	7.35	7.44	7.38	7.21	7.07	7.20	7.13	7.21	7.14	7.22	7.14	5.09	5.00	4.89	4.89	5.23	5.38	5.31
150	9.37	9.31	9.36	9.28	9.22	9.13	9.25	9.19	9.28	9.21	9.29	9.25	7.49	7.41	7.32	7.30	7.63	7.77	7.71
155	10.6	10.5	10.5	10.4	10.5	10.5	10.7	10.6	10.6	10.6	10.7	10.7	9.42	9.35	9.27	9.21	9.46	9.59	9.57
160	10.7	10.6	10.5	10.4	10.7	10.8	10.9	10.9	10.9	10.8	10.9	11.0	10.3	10.2	10.2	10.1	10.2	10.3	10.3
165	9.66	9.51	9.36	9.39	9.81	9.93	10.0	10.0	10.1	9.98	9.99	10.1	9.84	9.88	9.84	9.87	9.96	9.91	9.92
170	8.32	8.14	8.14	8.10	8.40	8.52	8.58	8.60	8.68	8.74	8.84	8.82	8.83	8.97	9.08	8.99	8.87	8.81	8.84
175	7.37	7.21	7.24	7.34	7.63	7.58	7.57	7.59	7.77	7.89	7.96	7.88	7.84	8.02	8.26	8.29	8.11	8.00	7.92
180	7.52	7.46	7.55	7.68	7.63	7.55	7.58	7.52	7.67	7.83	7.75	7.67	7.50	7.48	7.55	7.69	7.63	7.56	7.58

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:23DEG
Operators:HTJ
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-TL0015-31 BLACK	TYPE:LED TRACK LIGHT	WEIGHT:
SPEC.:CRI90 3000K L	DIM.:	SERIAL No.:
MFR.: 1	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEC) γ (DEC)	285	300	315	330	345													
0	2396	2396	2396	2396	2396													
5	2711	2712	2711	2700	2667													
10	2472	2496	2474	2487	2435													
15	1738	1768	1739	1780	1736													
20	866	904	882	925	889													
25	364	368	357	366	356													
30	166	166	159	161	154													
35	78.1	78.3	75.1	75.9	72.9													
40	40.4	40.8	39.9	40.7	39.7													
45	23.8	24.1	23.8	24.5	23.9													
50	14.1	14.2	14.0	14.4	13.8													
55	7.15	7.15	6.98	7.03	6.57													
60	3.68	3.74	3.60	3.70	3.36													
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	0.87	0.87	0.91	0.86	0.93													
140	2.96	2.97	3.02	2.97	3.07													
145	5.32	5.33	5.36	5.32	5.39													
150	7.69	7.70	7.69	7.66	7.72													
155	9.50	9.48	9.44	9.43	9.46													
160	10.2	10.2	10.1	10.1	10.1													
165	9.80	9.84	9.65	9.54	9.56													
170	8.72	8.75	8.62	8.61	8.53													
175	7.94	8.08	7.98	7.76	7.69													
180	7.52	7.67	7.84	7.74	7.67													

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:23DEG
Operators:HTJ
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: