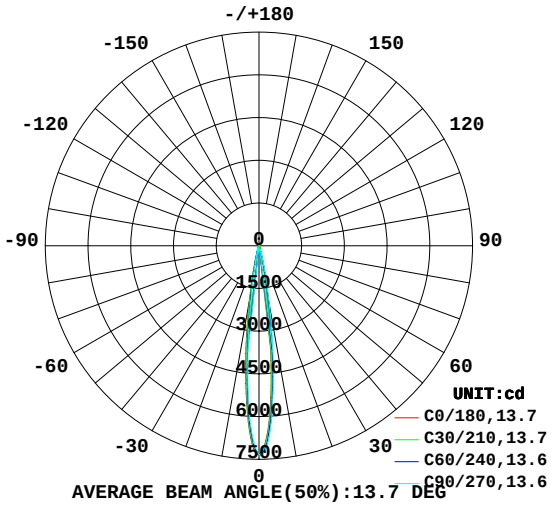
LUMINAIRE PHOTOMETRIC TEST REPORT

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

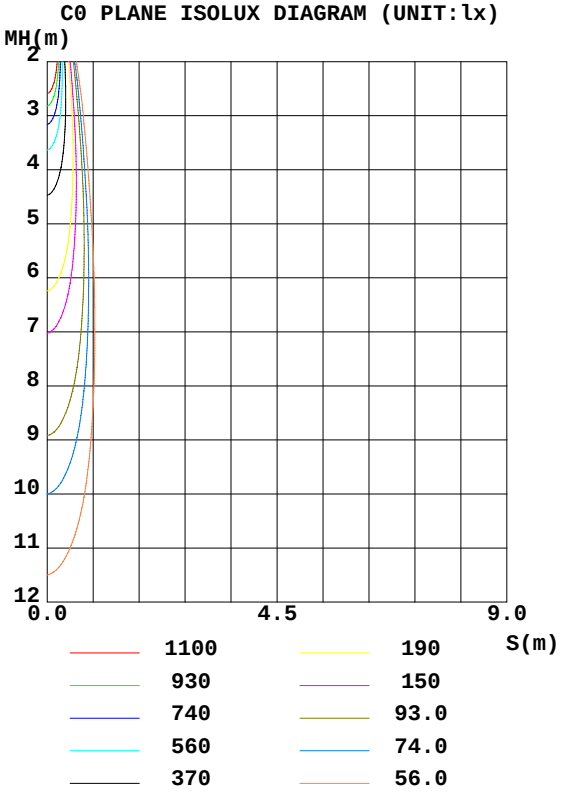
DATA OF LAMP		PHOTOMETRIC DATA Eff: 52.30 lm/W			
MODEL	CMA1306	Imax(cd)	7377	S/MH(C0/180)	0.25
NOMINAL POWER(W)	10	LOR(%)	100.0	S/MH(C90/270)	0.21
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	572.49	η UP,DN(C0-180)	0.6,54.1
NOMINAL FLUX(lm)	572.485	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.5,44.8
LAMPS INSIDE	1	η up(%)	1.1	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	230	η down(%)	98.9	CIBSE SHR MAX	1.00

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):13.7 DEG

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 GO-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	1394	1724	2115	2244	1925	1676	1342	1173	0- 10	365.0	365.0	63.8,63.8
20	106.4	119.0	150.4	165.7	139.8	127.9	101.4	97.20	10- 20	142.0	507.0	88.6,88.6
30	35.30	35.23	37.00	37.45	35.59	36.01	34.12	33.48	20- 30	29.13	536.2	93.7,93.7
40	20.52	19.37	21.27	22.44	21.38	20.45	20.11	19.00	30- 40	16.60	552.8	96.6,96.6
50	5.940	5.980	6.997	7.712	7.439	6.834	5.828	5.473	40- 50	9.909	562.7	98.3,98.3
60	1.106	1.146	1.387	1.811	1.780	1.470	1.096	0.9097	50- 60	3.178	565.9	98.8,98.8
70	0	0	0	0	0	0	0	0	60- 70	0.2985	566.2	98.9,98.9
80	0	0	0	0	0	0	0	0	70- 80	0	566.2	98.9,98.9
90	0	0	0	0	0	0	0	0	80- 90	0	566.2	98.9,98.9
100	0	0	0	0	0	0	0	0	90-100	0	566.2	98.9,98.9
110	0	0	0	0	0	0	0	0	100-110	0	566.2	98.9,98.9
120	0	0	0	0	0	0	0	0	110-120	0	566.2	98.9,98.9
130	0	0	0	0	0	0	0	0	120-130	0	566.2	98.9,98.9
140	2.328	2.052	1.610	1.455	0	0	0.3696	0.5150	130-140	0.1168	566.3	98.9,98.9
150	5.377	5.305	5.145	5.109	4.463	4.595	4.881	4.953	140-150	2.009	568.3	99.3,99.3
160	5.944	5.763	6.035	5.975	6.062	5.926	6.043	5.807	150-160	2.597	570.9	99.7,99.7
170	2.539	2.468	3.384	3.370	3.706	3.206	3.102	2.290	160-170	1.448	572.3	100,100
180	0	0.0881	0.0257	0.0278	0	0.0842	0.0237	0.0218	170-180	0.1517	572.5	100,100
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

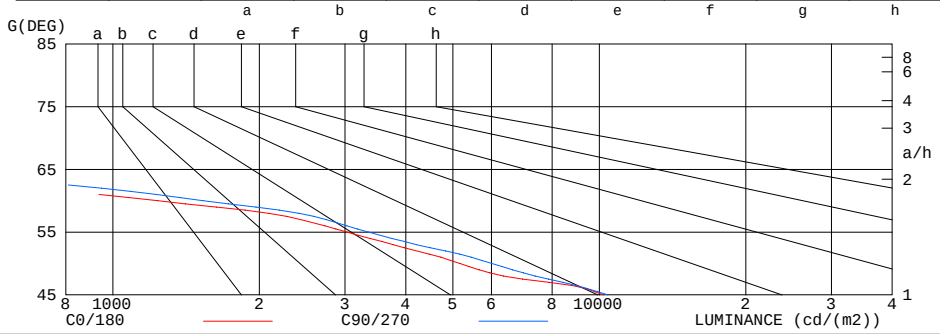
γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.300m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

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

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	0	0
80	0	0
75	0	0
70	0	0
65	0	0
60	1236	1531
55	3027	3350
50	5167	6006
45	10198	10423

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 GO-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.300m [K=1.0000]
Remarks:

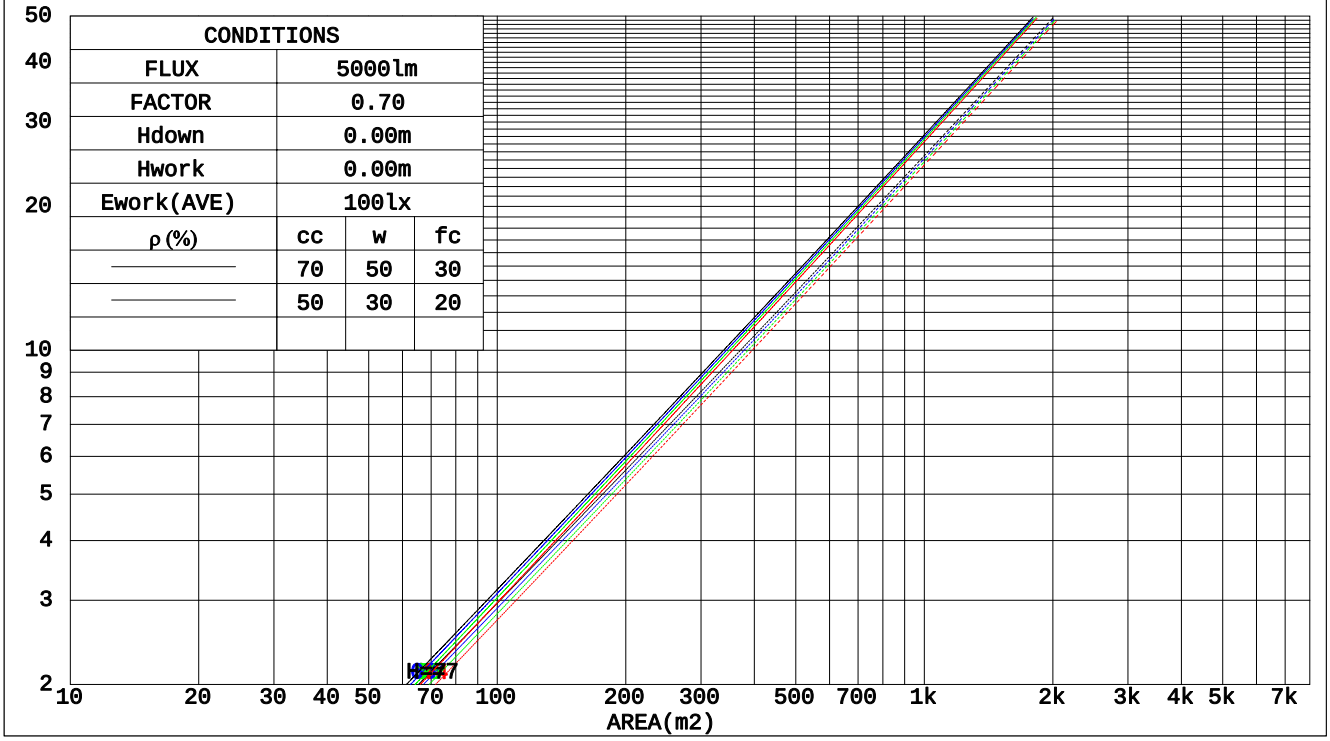
CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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

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			Coefficients of Utilization(CU)												
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.10	1.10	1.10	1.06	1.06	1.06	1.01	1.01	1.01	.99
1.0	1.14	1.12	1.10	1.11	1.10	1.09	1.07	1.06	1.05	1.03	1.03	1.02	.00	.99	.99	.97
2.0	1.09	1.07	1.04	1.07	1.05	1.03	1.04	1.02	1.01	1.01	.00	.99	.98	.97	.96	.95
3.0	1.06	1.03	1.00	1.04	1.01	.99	1.02	.99	.98	.99	.98	.96	.97	.96	.94	.93
4.0	1.03	.99	.97	1.01	.98	.96	.99	.97	.95	.97	.95	.94	.96	.94	.93	.92
5.0	.00	.96	.94	.99	.96	.94	.97	.95	.93	.96	.94	.92	.94	.93	.91	.90
6.0	.98	.94	.92	.97	.94	.91	.95	.93	.91	.94	.92	.90	.93	.91	.90	.89
7.0	.96	.92	.90	.95	.92	.90	.94	.91	.89	.93	.90	.89	.92	.90	.88	.87
8.0	.94	.90	.88	.93	.90	.88	.92	.90	.88	.91	.89	.87	.91	.88	.87	.86
9.0	.92	.89	.87	.92	.89	.87	.91	.88	.86	.90	.88	.86	.89	.87	.86	.85
10.0	.91	.87	.85	.90	.87	.85	.90	.87	.85	.89	.87	.85	.88	.86	.85	.84

LAMPS

LUMINAIRE BUDGETARY DIAGRAM



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 GO-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 S	DIM.:	SERIAL No.:
MFR.: 1	SUR.:	Shielding Angle:

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						Wall Exitance Coeffcients(WEC)									
0.0																
1.0	.119	.068	.022	.113	.064	.020	.100	.057	.018	.088	.051	.016	.077	.045	.014	
2.0	.109	.060	.018	.103	.057	.018	.093	.052	.016	.083	.047	.015	.074	.042	.013	
3.0	.100	.053	.016	.096	.051	.015	.087	.047	.014	.079	.043	.013	.071	.039	.012	
4.0	.093	.048	.014	.089	.046	.014	.081	.043	.013	.074	.040	.012	.068	.037	.011	
5.0	.086	.044	.013	.083	.043	.012	.077	.040	.012	.071	.037	.011	.065	.035	.010	
6.0	.080	.040	.012	.078	.039	.011	.072	.037	.011	.067	.035	.010	.062	.033	.010	
7.0	.076	.037	.011	.073	.036	.010	.068	.035	.010	.064	.033	.010	.060	.031	.009	
8.0	.071	.035	.010	.069	.034	.010	.065	.032	.009	.061	.031	.009	.058	.030	.009	
9.0	.067	.033	.009	.065	.032	.009	.062	.031	.009	.059	.029	.008	.055	.028	.008	
10.0	.064	.031	.009	.062	.030	.008	.059	.029	.008	.056	.028	.008	.053	.027	.008	

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	.199	.199	.199	.170	.170	.170	.116	.116	.116	.067	.067	.067	.021	.021	.021	
1.0	.176	.166	.158	.150	.143	.136	.103	.098	.094	.059	.057	.055	.019	.018	.018	
2.0	.156	.141	.129	.134	.122	.111	.092	.084	.078	.053	.049	.045	.017	.016	.015	
3.0	.140	.122	.107	.120	.105	.093	.083	.073	.065	.048	.043	.038	.015	.014	.013	
4.0	.127	.106	.090	.109	.092	.078	.075	.064	.055	.043	.037	.033	.014	.012	.011	
5.0	.116	.094	.077	.099	.081	.067	.068	.057	.047	.040	.033	.028	.013	.011	.009	
6.0	.106	.083	.067	.091	.072	.058	.063	.050	.041	.036	.030	.025	.012	.010	.008	
7.0	.098	.075	.059	.084	.065	.051	.058	.045	.036	.034	.027	.022	.011	.009	.007	
8.0	.090	.068	.052	.078	.059	.045	.054	.041	.032	.031	.024	.019	.010	.008	.006	
9.0	.084	.062	.047	.073	.054	.041	.050	.038	.029	.029	.022	.017	.009	.007	.006	
10.0	.079	.057	.042	.068	.049	.037	.047	.035	.026	.028	.021	.016	.009	.007	.005	

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 GO-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.300m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

NAME: vN-TLO010-31 BLACK	TYPE:LED TRACK LIGHT	WEIGHT:
SPEC.:CRI90 3000K S	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	9.0	9.5	9.2	9.7	9.8	9.4	10.0	9.7	10.1	10.3
3H	8.8	9.3	9.1	9.5	9.7	9.3	9.8	9.5	10.0	10.2
4H	8.8	9.2	9.0	9.5	9.7	9.2	9.7	9.5	9.9	10.1
6H	8.7	9.1	9.0	9.4	9.6	9.1	9.6	9.4	9.8	10.1
8H	8.6	9.1	8.9	9.3	9.6	9.1	9.5	9.4	9.8	10.0
12H	8.6	9.0	8.9	9.3	9.6	9.0	9.5	9.4	9.7	10.0
4H 2H	8.8	9.3	9.1	9.5	9.7	9.3	9.7	9.5	10.0	10.2
3H	8.6	9.1	9.0	9.3	9.6	9.1	9.5	9.4	9.8	10.1
4H	8.5	8.9	8.9	9.2	9.6	9.0	9.4	9.3	9.7	10.0
6H	8.4	8.8	8.8	9.1	9.5	8.9	9.2	9.3	9.6	9.9
8H	8.4	8.7	8.8	9.1	9.4	8.8	9.1	9.2	9.5	9.9
12H	8.3	8.6	8.7	9.0	9.4	8.8	9.1	9.2	9.4	9.9
8H 4H	8.4	8.7	8.8	9.1	9.4	8.8	9.1	9.2	9.5	9.9
6H	8.3	8.5	8.7	8.9	9.4	8.7	9.0	9.1	9.4	9.8
8H	8.2	8.4	8.7	8.9	9.3	8.6	8.9	9.1	9.3	9.8
12H	8.1	8.3	8.6	8.8	9.3	8.6	8.8	9.0	9.2	9.7
12H 4H	8.3	8.6	8.7	9.0	9.4	8.8	9.1	9.2	9.4	9.9
6H	8.2	8.4	8.7	8.9	9.3	8.6	8.9	9.1	9.3	9.8
8H	8.1	8.3	8.6	8.8	9.3	8.6	8.8	9.0	9.2	9.7

Variations with the observer position at spacings:		
S = 1.0H	+ 2.4 / - 7.5	+ 2.2 / - 6.8
1.5H	+ 3.1 / - 5.6	+ 2.7 / - 4.6
2.0H	+ 5.9 / -50.8	+ 5.3 / -15.7

CIE Pub.117, 572.5 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -1.9)

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 GO-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 S	DIM.:	SERIAL No.:
MFR.: 1	SUR.:	Shielding Angle:

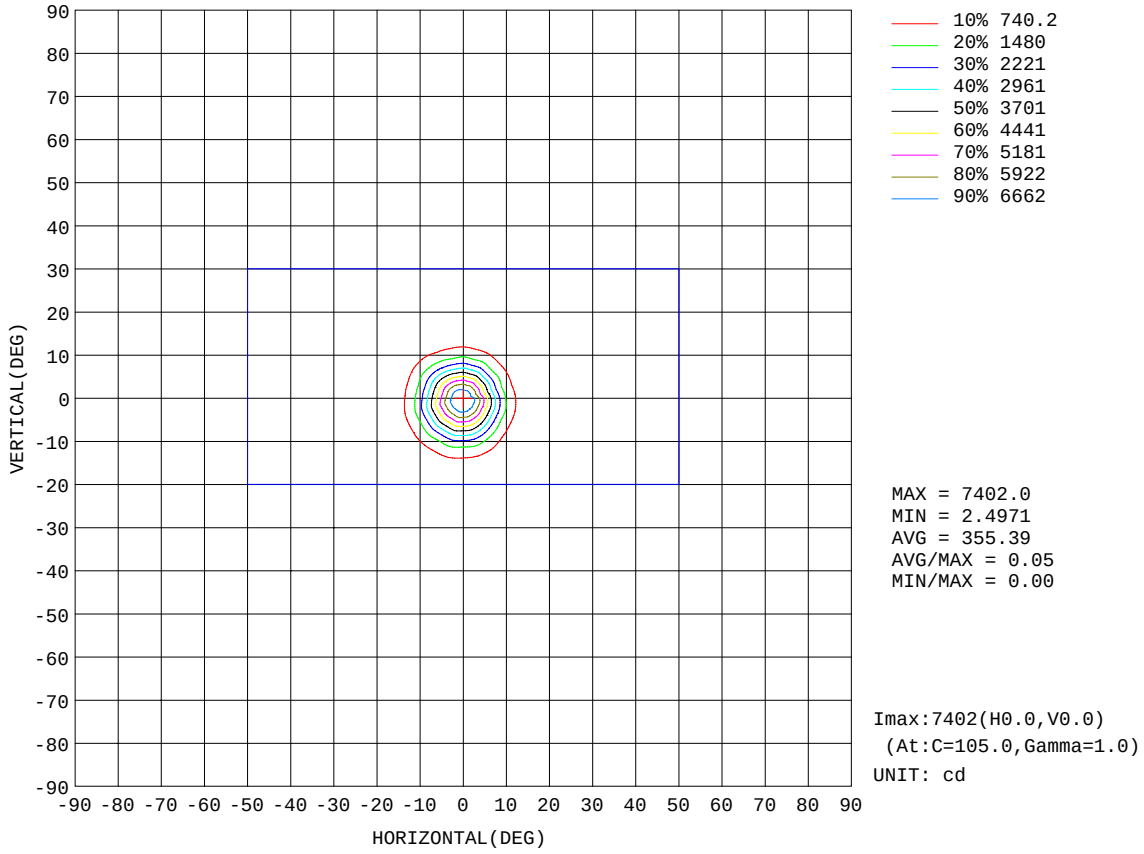
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	89	83	80	89	83	80	88	83	80	76
0.80	97	91	88	96	91	88	95	90	87	84
1.00	101	95	92	100	95	92	98	94	91	87
1.25	104	99	96	103	99	96	101	98	95	91
1.50	107	102	99	105	102	99	103	100	98	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	105	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	99
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 GO-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 S	DIM.:	SERIAL No.:
MFR.: 1	SUR.:	Shielding Angle:



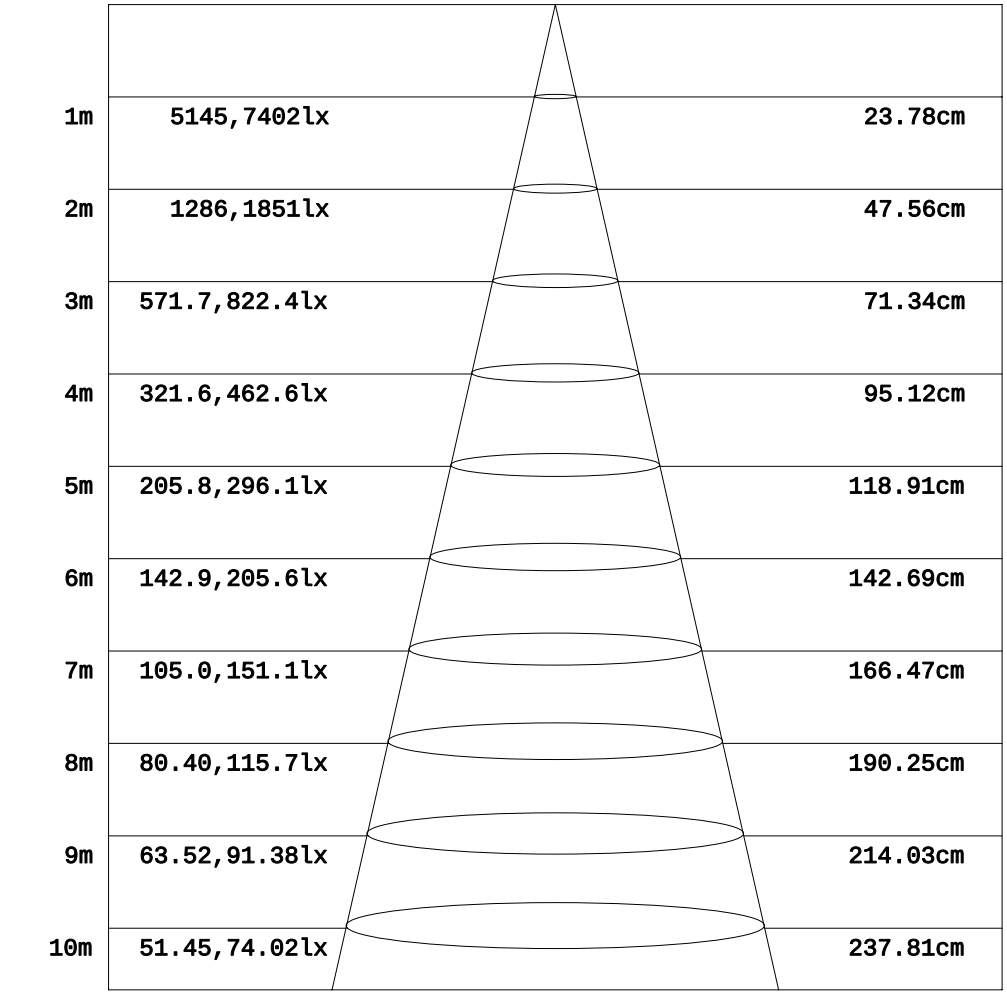
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:23DEG
Operators:HTJ
Test Date:2018-10-10

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-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 S	DIM.:	SERIAL No.:
MFR.: 1	SUR.:	Shielding Angle:

Flux out:243.7 lm



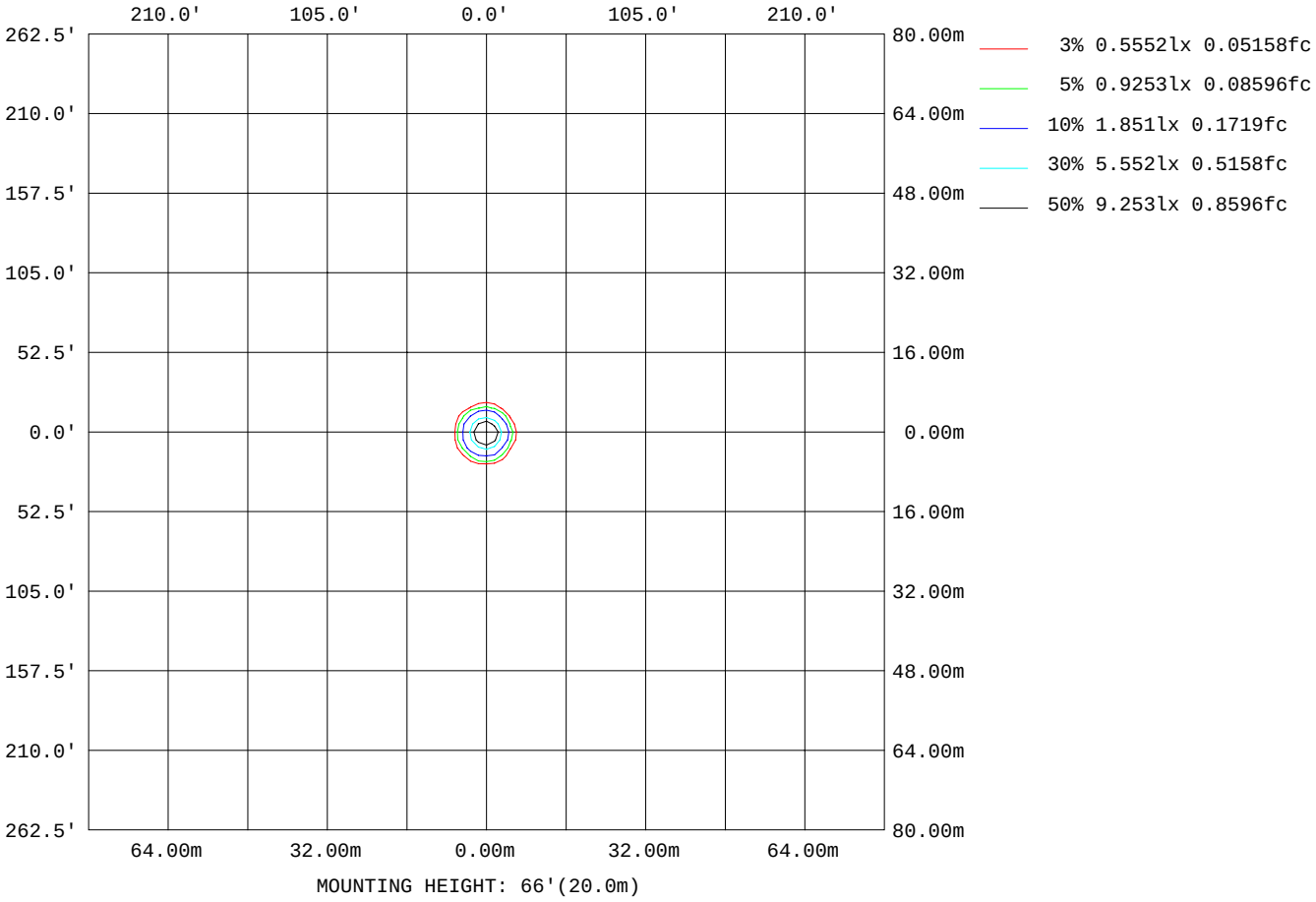
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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 GO-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.300m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

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

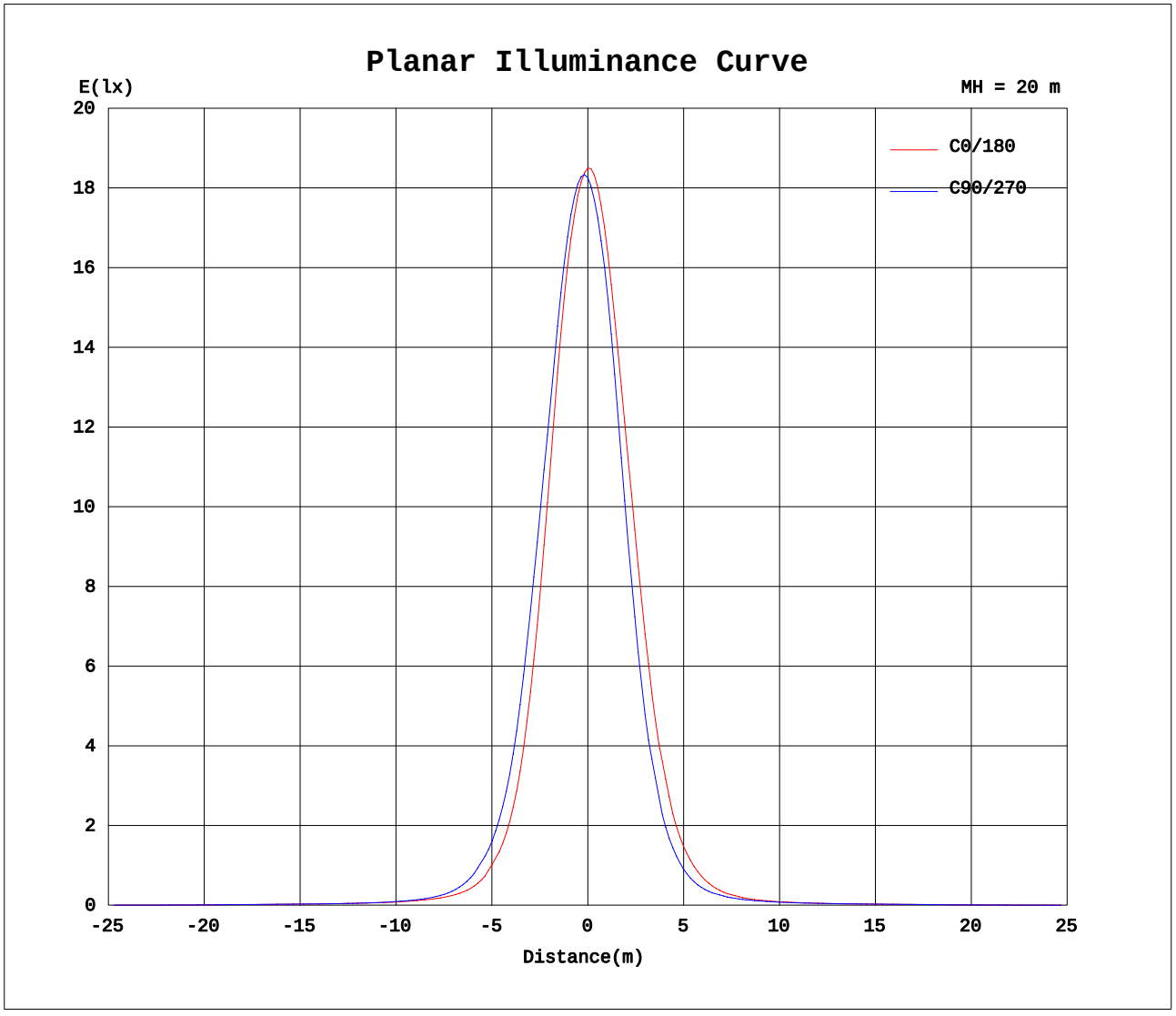
AvgL	cd/m2
L_0~180(65)av	0
L_0~180(75)av	0
L_0~180(85)av	0
L_90~270(65)av	0
L_90~270(75)av	0
L_90~270(85)av	0
L_45(65)av	47
L_45(75)av	0
L_45(85)av	0

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 GO-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 GO-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 S	DIM.:	SERIAL No.:
MFR.: 1	SUR.:	Shielding Angle:

Table--1 UNIT: cd

γ (DEG) \ C(DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	7318	7318	7318	7318	7318	7318	7318	7318	7318	7318	7318	7318	7318	7318	7318	7318	7318	7318	7318
5	4918	5093	5056	5270	5356	5569	5520	5696	5480	5602	5516	5665	5207	5049	5070	4874	4733	4517	4548
10	1394	1553	1498	1724	1941	2138	2115	2268	2126	2244	2148	2228	1925	1820	1832	1676	1462	1268	1342
15	323	341	343	377	497	534	548	592	560	591	556	561	494	481	474	449	334	305	304
20	106	112	109	119	138	149	150	162	157	166	155	155	140	134	140	128	111	102	101
25	55.3	56.5	56.9	57.8	61.4	64.5	64.8	67.2	64.4	66.7	64.4	65.2	60.9	60.1	62.8	60.3	55.9	53.3	52.7
30	35.3	35.7	35.5	35.2	36.3	37.1	37.0	37.6	36.8	37.4	36.9	37.2	35.6	35.5	36.7	36.0	34.6	34.1	34.1
35	26.2	26.3	25.9	25.2	26.0	26.3	26.3	26.7	26.7	27.1	26.6	26.5	26.0	26.0	26.3	26.3	25.2	25.3	25.6
40	20.5	20.5	19.7	19.4	21.0	21.2	21.3	21.9	22.0	22.4	21.8	21.7	21.4	21.2	21.0	20.5	19.0	19.4	20.1
45	12.9	12.7	11.7	11.6	13.4	13.6	13.4	13.8	13.8	14.3	14.0	14.1	13.8	13.7	13.4	12.8	11.7	12.0	12.6
50	5.94	5.85	5.62	5.98	6.89	7.11	7.00	7.28	7.27	7.71	7.65	7.77	7.44	7.31	7.06	6.83	6.21	5.90	5.83
55	3.10	3.01	2.84	3.06	3.47	3.58	3.48	3.63	3.67	3.97	3.96	4.07	3.91	3.83	3.69	3.52	3.17	2.99	2.95
60	1.11	1.08	0.98	1.15	1.38	1.45	1.39	1.51	1.56	1.81	1.81	1.94	1.78	1.73	1.62	1.47	1.28	1.15	1.10
65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.07	0.21	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	0.00	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
135	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
140	2.33	2.21	2.22	2.05	1.77	1.61	1.61	1.48	1.57	1.45	1.53	1.47	0.00	0.00	0.00	0.00	0.22	0.39	0.37
145	4.38	4.31	4.31	4.23	3.99	3.90	3.88	3.83	3.85	3.80	3.82	3.83	2.37	2.47	2.46	2.60	2.88	3.04	3.04
150	5.38	5.35	5.33	5.30	5.18	5.16	5.15	5.13	5.12	5.11	5.12	5.14	4.46	4.51	4.50	4.59	4.79	4.89	4.88
155	5.84	5.82	5.77	5.78	5.73	5.76	5.75	5.76	5.72	5.74	5.74	5.78	5.56	5.55	5.56	5.57	5.68	5.73	5.75
160	5.94	5.88	5.76	5.76	5.90	6.02	6.03	6.06	5.97	5.98	6.00	6.09	6.06	6.02	5.97	5.93	5.96	6.04	6.04
165	4.97	4.89	4.59	4.71	5.15	5.47	5.57	5.58	5.40	5.34	5.41	5.68	5.70	5.57	5.36	5.26	5.29	5.35	5.38
170	2.54	2.53	2.41	2.47	2.84	3.25	3.38	3.45	3.23	3.37	3.53	3.75	3.71	3.56	3.45	3.21	3.03	3.08	3.10
175	0.37	0.43	0.46	0.62	0.93	1.02	1.09	1.17	1.18	1.29	1.34	1.38	1.29	1.27	1.29	1.22	0.94	0.84	0.73
180	0.00	0.00	0.00	0.09	0.02	0.00	0.03	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.08	0.02	0.00	0.02

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 GO-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 S	DIM.:	SERIAL No.:
MFR.: 1	SUR.:	Shielding Angle:

Table--2 UNIT: cd

C(DEG) / γ (DEG)	285	300	315	330	345														
0	7318	7318	7318	7318	7318														
5	4381	4540	4416	4523	4428														
10	1205	1300	1173	1271	1201														
15	286	295	278	290	288														
20	97.3	99.5	97.2	100	99.8														
25	51.4	52.0	51.8	52.7	52.9														
30	33.4	33.6	33.5	34.1	34.2														
35	25.1	24.9	24.8	25.2	25.7														
40	19.6	19.3	19.0	19.4	19.5														
45	12.3	12.2	12.0	12.4	12.4														
50	5.70	5.61	5.47	5.70	5.72														
55	2.88	2.83	2.76	2.92	2.97														
60	1.03	0.98	0.91	0.98	0.98														
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	0.00	0.00	0.00	0.00	0.00														
140	0.50	0.40	0.51	0.43	0.48														
145	3.15	3.07	3.16	3.10	3.13														
150	4.95	4.88	4.95	4.91	4.95														
155	5.76	5.70	5.72	5.72	5.75														
160	6.02	5.87	5.81	5.82	5.92														
165	5.22	5.02	4.69	4.64	4.80														
170	2.83	2.59	2.29	2.28	2.29														
175	0.59	0.51	0.35	0.19	0.22														
180	0.00	0.00	0.02	0.00	0.00														

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 GO-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.300m [K=1.0000]
Remarks: