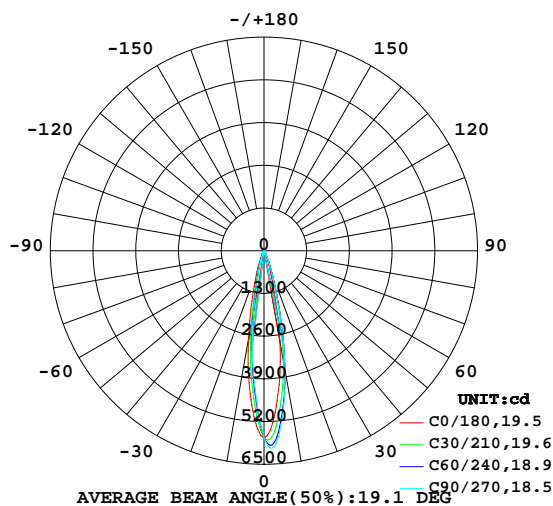


## LUMINAIRE PHOTOMETRIC TEST REPORT

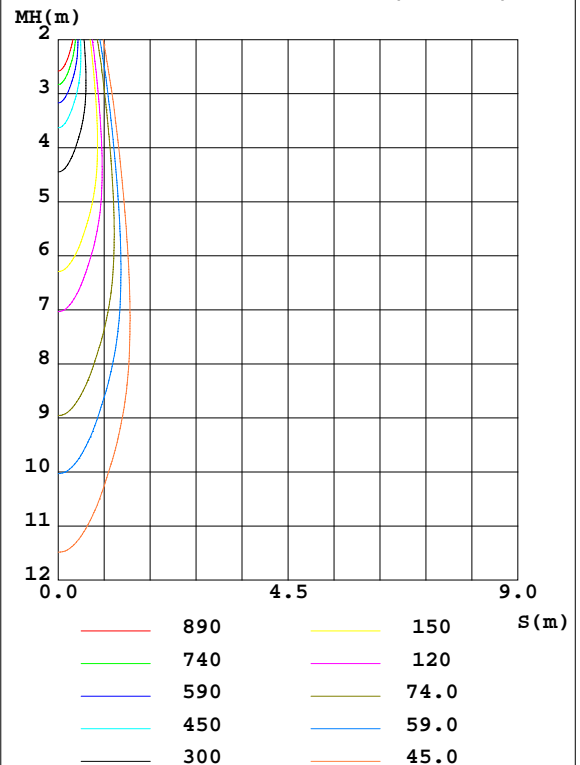
NAME: EN-TLO015-31 WHITE	TYPE:LED TRACK LIGHT	WEIGHT:
SPEC.:CRI80 3000K Small	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 68.43 lm/W			
MODEL	CLU028-1204C4	Imax(cd)	6061	S/MH(C0/180)	0.33
NOMINAL POWER(W)	15	LOR(%)	100.0	S/MH(C90/270)	0.25
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	984.00	$\eta$ UP,DN(C0-180)	0.7,60.6
NOMINAL FLUX(lm)	983.996	CIE CLASS	DIRECT	$\eta$ UP,DN(C180-360)	0.7,38.1
LAMPS INSIDE	1	$\eta$ up(%)	1.3	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	230	$\eta$ down(%)	98.7	CIBSE SHR MAX	1.00

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:2018-02-26

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:

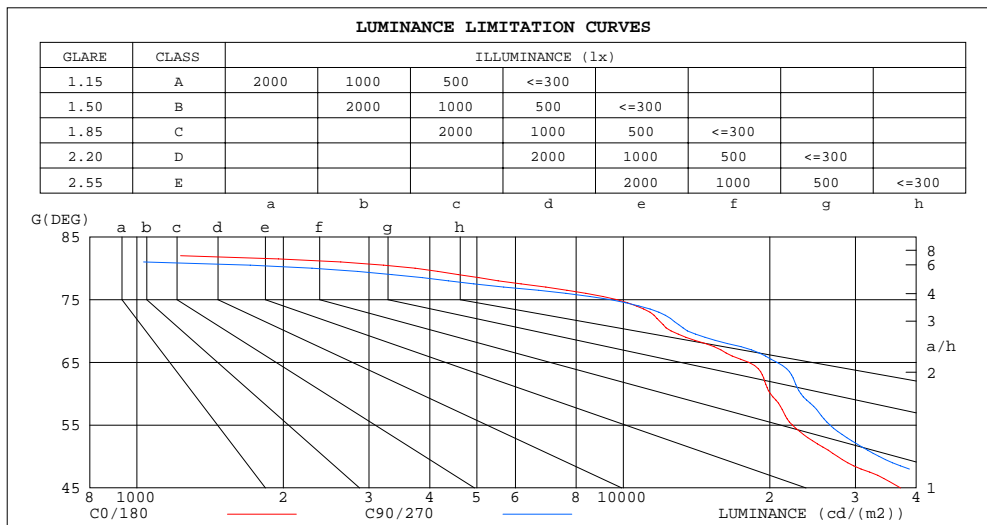
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\%lum, lamp$
10	2802	3687	3695	3621	2707	1888	1767	2084	0- 10	384.2	384.2	39,39
20	408.2	740.1	665.0	622.4	517.0	282.0	249.7	276.6	10- 20	349.2	733.4	74.5,74.5
30	109.7	145.0	135.3	129.2	113.3	91.30	88.36	94.68	20- 30	104.2	837.6	85.1,85.1
40	63.31	86.01	85.44	86.35	74.45	53.76	48.35	51.67	30- 40	54.80	892.4	90.7,90.7
50	30.67	38.57	38.61	38.07	33.45	27.94	25.88	27.26	40- 50	38.59	931.0	94.6,94.6
60	17.36	19.89	20.73	21.11	19.27	17.09	16.20	16.71	50- 60	22.03	953.0	96.9,96.9
70	7.421	8.205	8.289	8.635	7.866	7.371	7.060	7.060	60- 70	13.46	966.5	98.2,98.2
80	1.122	1.183	0.7119	0.6488	0.7341	0.8904	0.8137	0.6460	70- 80	4.404	970.9	98.7,98.7
90	0	0	0	0	0	0	0	0	80- 90	0.0985	971.0	98.7,98.7
100	0	0	0	0	0	0	0	0	90-100	0	971.0	98.7,98.7
110	0	0	0	0	0	0	0	0	100-110	0	971.0	98.7,98.7
120	0	0	0	0	0	0	0	0	110-120	0	971.0	98.7,98.7
130	0	0	0	0	0	0	0	0	120-130	0	971.0	98.7,98.7
140	4.808	3.595	3.216	3.679	2.653	3.794	4.107	3.801	130-140	0.9375	971.9	98.8,98.8
150	9.322	8.665	8.666	9.180	8.058	9.009	9.408	9.333	140-150	4.066	976.0	99.2,99.2
160	10.28	10.40	10.83	11.10	10.34	10.26	10.72	10.64	150-160	4.705	980.7	99.7,99.7
170	6.910	7.804	8.534	8.644	7.458	6.775	6.666	6.647	160-170	2.731	983.4	99.9,99.9
180	4.498	4.864	4.599	4.780	4.498	4.858	4.601	4.774	170-180	0.5888	984.0	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:2018-02-26

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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: EN-TLO015-31 WHITE	TYPE:LED TRACK LIGHT	WEIGHT:
SPEC.:CRI80 3000K Small	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



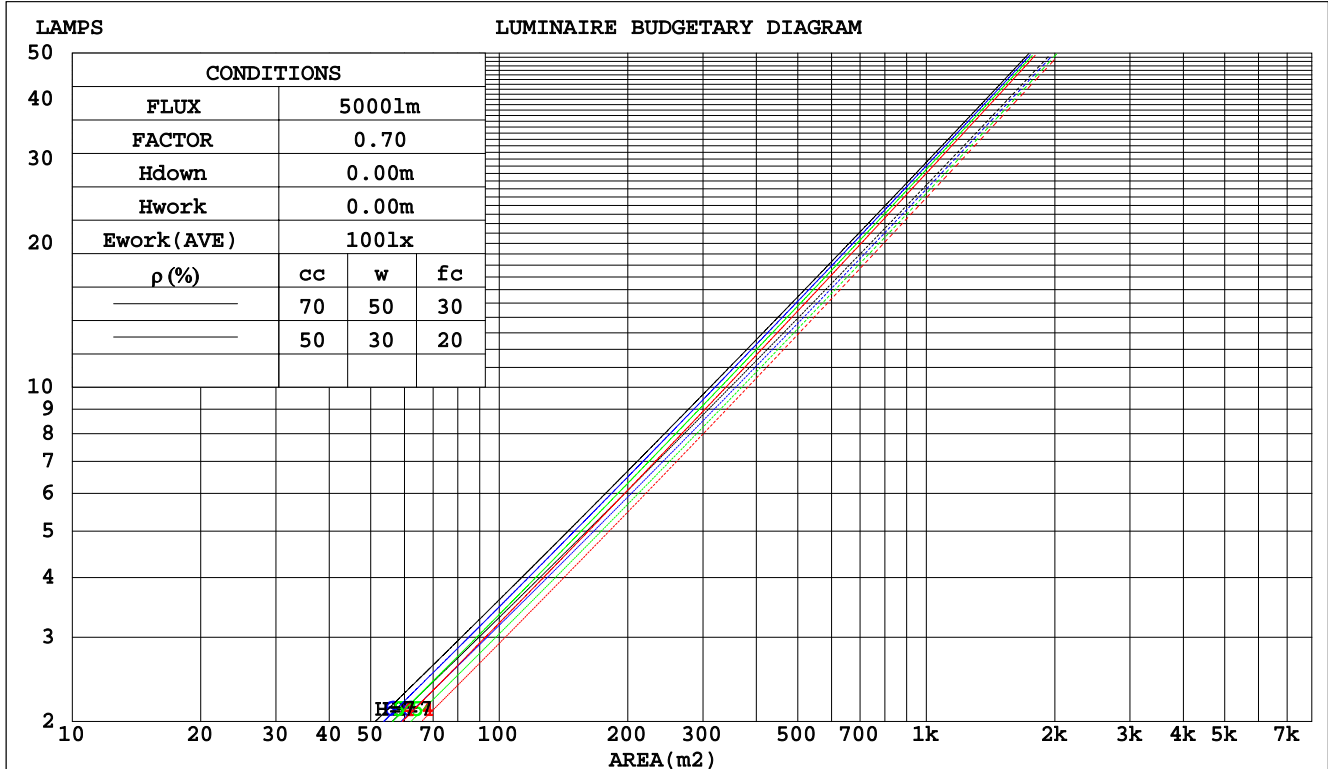
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: MEDIUM  
Temperature: 23DEG  
Operators: xyj  
Test Date: 2018-02-26

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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: EN-TLO015-31 WHITE	TYPE:LED TRACK LIGHT	WEIGHT:
SPEC.:CRI80 3000K Small	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	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	1.05	1.04	1.03	1.02	1.00	.99	.98	.97	.96	.95
2.0	1.06	1.03	.00	1.04	1.01	.99	1.01	.98	.96	.98	.96	.94	.95	.93	.92	.90
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	.84
5.0	.93	.88	.85	.92	.88	.84	.90	.86	.84	.88	.85	.83	.87	.84	.82	.81
6.0	.89	.85	.81	.88	.84	.81	.87	.83	.81	.86	.82	.80	.84	.81	.79	.78
7.0	.86	.82	.79	.86	.81	.78	.84	.81	.78	.83	.80	.77	.82	.79	.77	.76
8.0	.83	.79	.76	.83	.79	.76	.82	.78	.75	.81	.78	.75	.80	.77	.75	.74
9.0	.81	.77	.74	.81	.76	.74	.80	.76	.73	.79	.75	.73	.78	.75	.73	.72
10.0	.79	.75	.72	.78	.74	.72	.78	.74	.71	.77	.74	.71	.76	.73	.71	.70



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: MEDIUM  
Temperature:23DEG  
Operators:xyj  
Test Date:2018-02-26

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: EN-TLO015-31 WHITE	TYPE:LED TRACK LIGHT	WEIGHT:
SPEC.:CRI80 3000K Small	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.149	.085	.027	.142	.081	.026	.129	.074	.024	.117	.067	.022	.106	.061	.020	
2.0	.139	.076	.023	.134	.074	.023	.123	.068	.021	.112	.063	.020	.103	.058	.018	
3.0	.130	.069	.021	.125	.067	.020	.116	.063	.019	.107	.059	.018	.099	.055	.017	
4.0	.122	.063	.019	.117	.061	.018	.109	.058	.017	.102	.055	.017	.095	.052	.016	
5.0	.114	.058	.017	.110	.057	.016	.103	.054	.016	.097	.051	.015	.091	.049	.015	
6.0	.107	.054	.015	.104	.053	.015	.098	.050	.015	.093	.048	.014	.087	.046	.014	
7.0	.101	.050	.014	.098	.049	.014	.093	.047	.014	.088	.045	.013	.084	.044	.013	
8.0	.096	.047	.013	.093	.046	.013	.089	.044	.013	.085	.043	.012	.080	.041	.012	
9.0	.091	.044	.012	.089	.043	.012	.085	.042	.012	.081	.041	.012	.077	.039	.011	
10.0	.087	.042	.012	.085	.041	.011	.081	.040	.011	.078	.039	.011	.074	.037	.011	

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.201	.201	.201	.171	.171	.171	.117	.117	.117	.067	.067	.067	.021	.021	.021	
1.0	.179	.168	.157	.153	.144	.135	.105	.099	.094	.060	.057	.054	.019	.018	.018	
2.0	.162	.143	.127	.139	.123	.110	.095	.085	.076	.055	.050	.045	.018	.016	.015	
3.0	.148	.124	.104	.127	.107	.090	.087	.074	.063	.050	.043	.037	.016	.014	.012	
4.0	.136	.108	.088	.116	.094	.076	.080	.065	.054	.046	.038	.032	.015	.012	.010	
5.0	.125	.096	.075	.108	.083	.065	.074	.058	.046	.043	.034	.027	.014	.011	.009	
6.0	.117	.086	.065	.100	.075	.056	.069	.052	.040	.040	.031	.024	.013	.010	.008	
7.0	.109	.078	.057	.094	.068	.050	.065	.048	.035	.038	.028	.021	.012	.009	.007	
8.0	.102	.072	.051	.088	.062	.044	.061	.044	.031	.035	.026	.019	.011	.008	.006	
9.0	.097	.066	.045	.083	.057	.040	.058	.040	.028	.034	.024	.017	.011	.008	.006	
10.0	.091	.061	.041	.079	.053	.036	.055	.037	.026	.032	.022	.015	.010	.007	.005	

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: MEDIUM  
Temperature:23DEG  
Operators:xyj  
Test Date:2018-02-26

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: EN-TLO015-31 WHITE					TYPE:LED TRACK LIGHT					WEIGHT:				
SPEC.:CRI80 3000K Small					DIM.:					SERIAL No.:				
MFR.:					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					18.7	19.4	19.0	19.6	19.8	19.4	20.1	19.6	20.3	20.5
3H					19.2	19.9	19.5	20.1	20.3	19.9	20.6	20.2	20.8	21.0
4H					19.4	20.0	19.6	20.2	20.4	20.0	20.6	20.3	20.8	21.1
6H					19.3	19.9	19.6	20.2	20.4	19.9	20.5	20.2	20.8	21.0
8H					19.3	19.8	19.6	20.1	20.4	19.9	20.5	20.2	20.7	21.0
12H					19.2	19.8	19.6	20.1	20.4	19.8	20.4	20.2	20.7	21.0
4H 2H					19.0	19.7	19.3	19.9	20.1	19.6	20.3	19.9	20.5	20.7
3H					19.6	20.2	20.0	20.5	20.8	20.2	20.7	20.5	21.0	21.3
4H					19.8	20.3	20.1	20.6	20.9	20.3	20.8	20.7	21.1	21.5
6H					19.8	20.2	20.1	20.6	20.9	20.3	20.7	20.6	21.1	21.4
8H					19.7	20.1	20.1	20.5	20.9	20.2	20.6	20.6	21.0	21.4
12H					19.6	20.0	20.1	20.4	20.8	20.1	20.5	20.6	20.9	21.3
8H 4H					19.7	20.2	20.2	20.5	20.9	20.3	20.7	20.7	21.0	21.4
6H					19.7	20.1	20.2	20.5	20.9	20.2	20.5	20.6	21.0	21.4
8H					19.7	20.0	20.1	20.4	20.9	20.1	20.4	20.6	20.9	21.3
12H					19.6	19.9	20.1	20.3	20.8	20.1	20.3	20.6	20.8	21.3
12H 4H					19.7	20.1	20.1	20.5	20.9	20.2	20.6	20.6	21.0	21.4
6H					19.7	20.0	20.1	20.4	20.9	20.1	20.4	20.6	20.9	21.3
8H					19.6	19.9	20.1	20.3	20.8	20.1	20.3	20.6	20.8	21.3
Variations with the observer position at spacings:														
S = 1.0H					+ 1.3 / - 1.5					+ 1.2 / - 1.5				
1.5H					+ 1.0 / - 1.3					+ 1.1 / - 1.3				
2.0H					+ 1.8 / - 1.4					+ 2.4 / - 1.3				

CIE Pub.117, 984.0 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -0.1)

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: MEDIUM  
Temperature:23DEG  
Operators:xyj  
Test Date:2018-02-26

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: EN-TLO015-31 WHITE	TYPE:LED TRACK LIGHT	WEIGHT:
SPEC.:CRI80 3000K Small	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

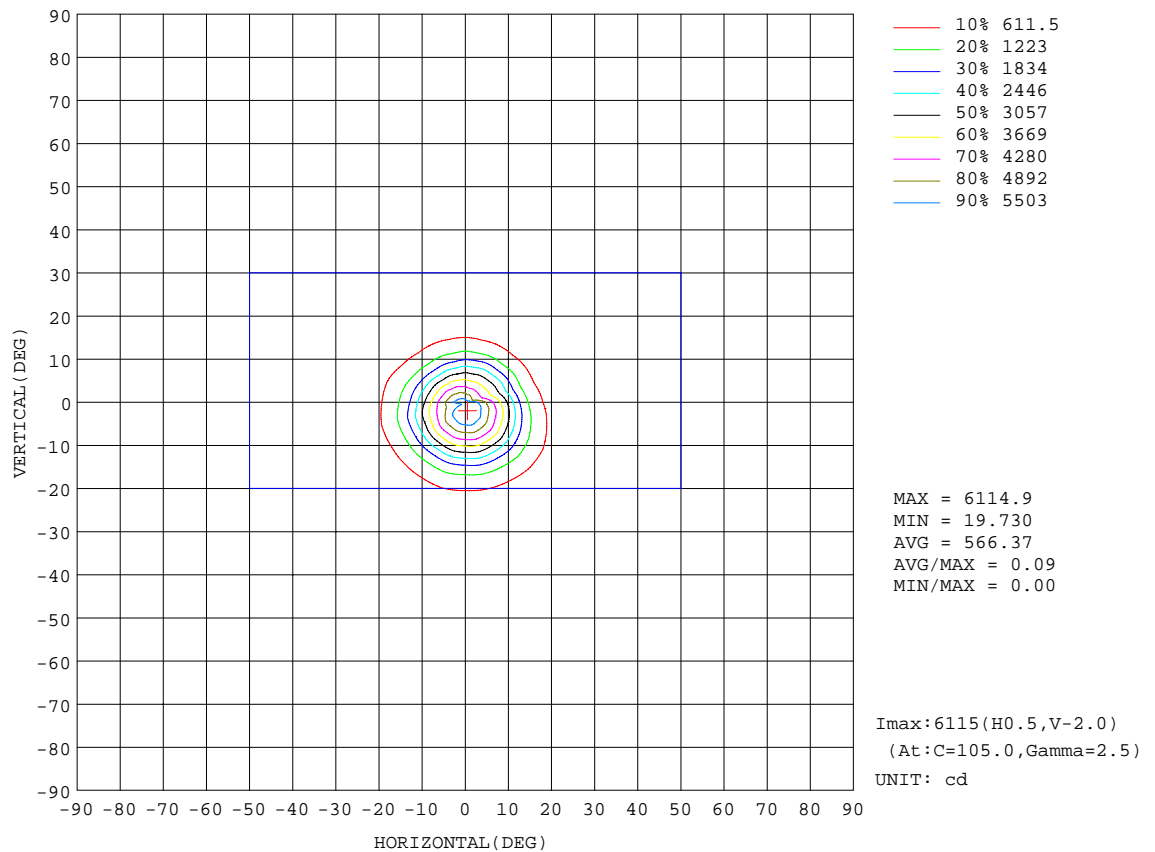
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT)    k(RI) x RCR = 5									
k = 0.60	86	79	75	85	79	75	84	79	75	71
0.80	93	87	83	93	87	83	91	86	83	79
1.00	98	92	88	97	91	88	95	91	87	83
1.25	102	97	93	101	96	92	99	95	92	87
1.50	105	100	96	103	99	96	101	97	95	90
2.00	108	103	100	106	102	99	103	100	97	92
2.50	109	105	102	108	104	101	104	102	99	93
3.00	111	108	105	109	106	103	106	103	101	94
4.00	113	110	108	111	109	107	107	105	104	96
5.00	114	112	110	112	110	109	108	107	105	97
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:2018-02-26

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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: EN-TLO015-31 WHITE	TYPE:LED TRACK LIGHT	WEIGHT:
SPEC.:CRI80 3000K Small	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



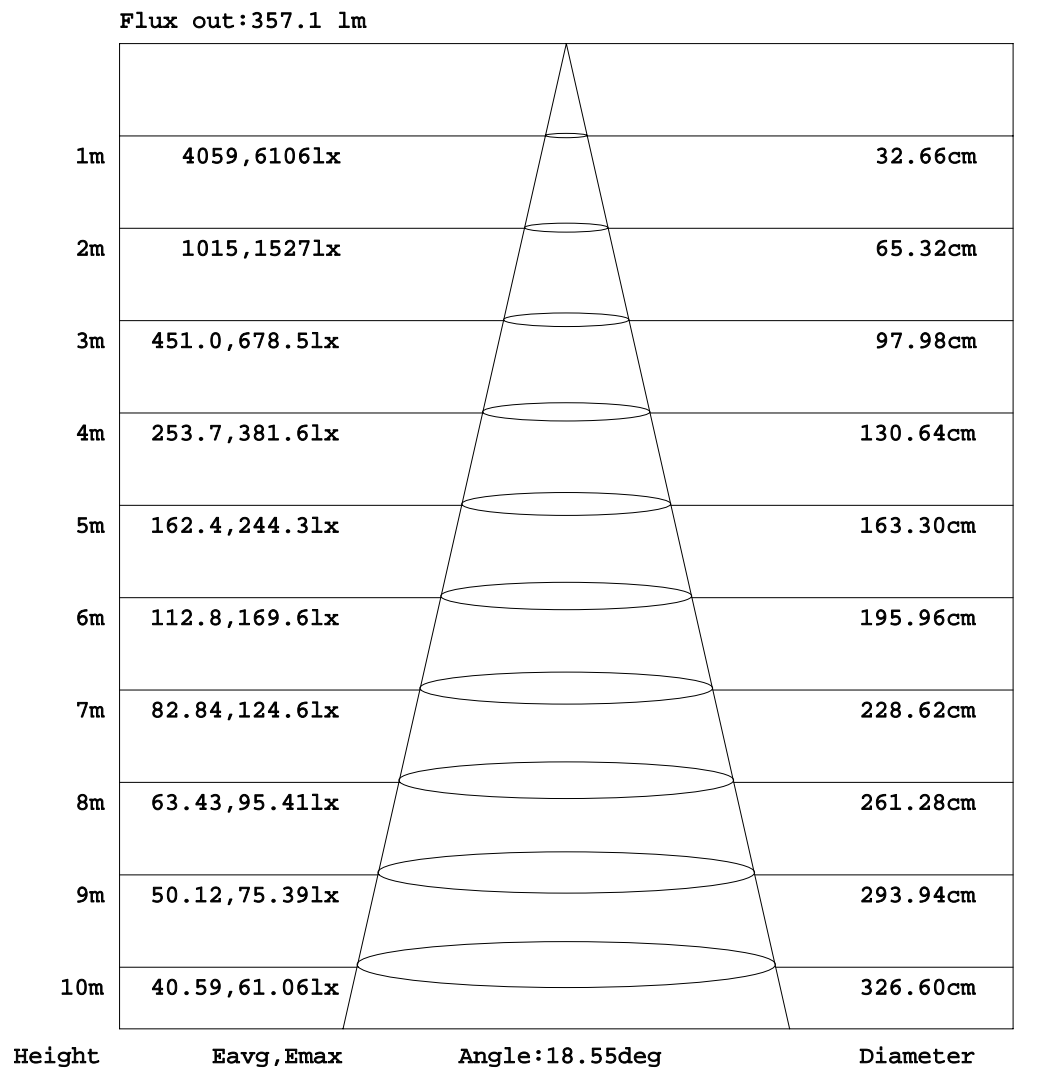
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature:23DEG  
 Operators:xyj  
 Test Date:2018-02-26

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: EN-TLO015-31 WHITE	TYPE:LED TRACK LIGHT	WEIGHT:
SPEC.:CRI80 3000K Small	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



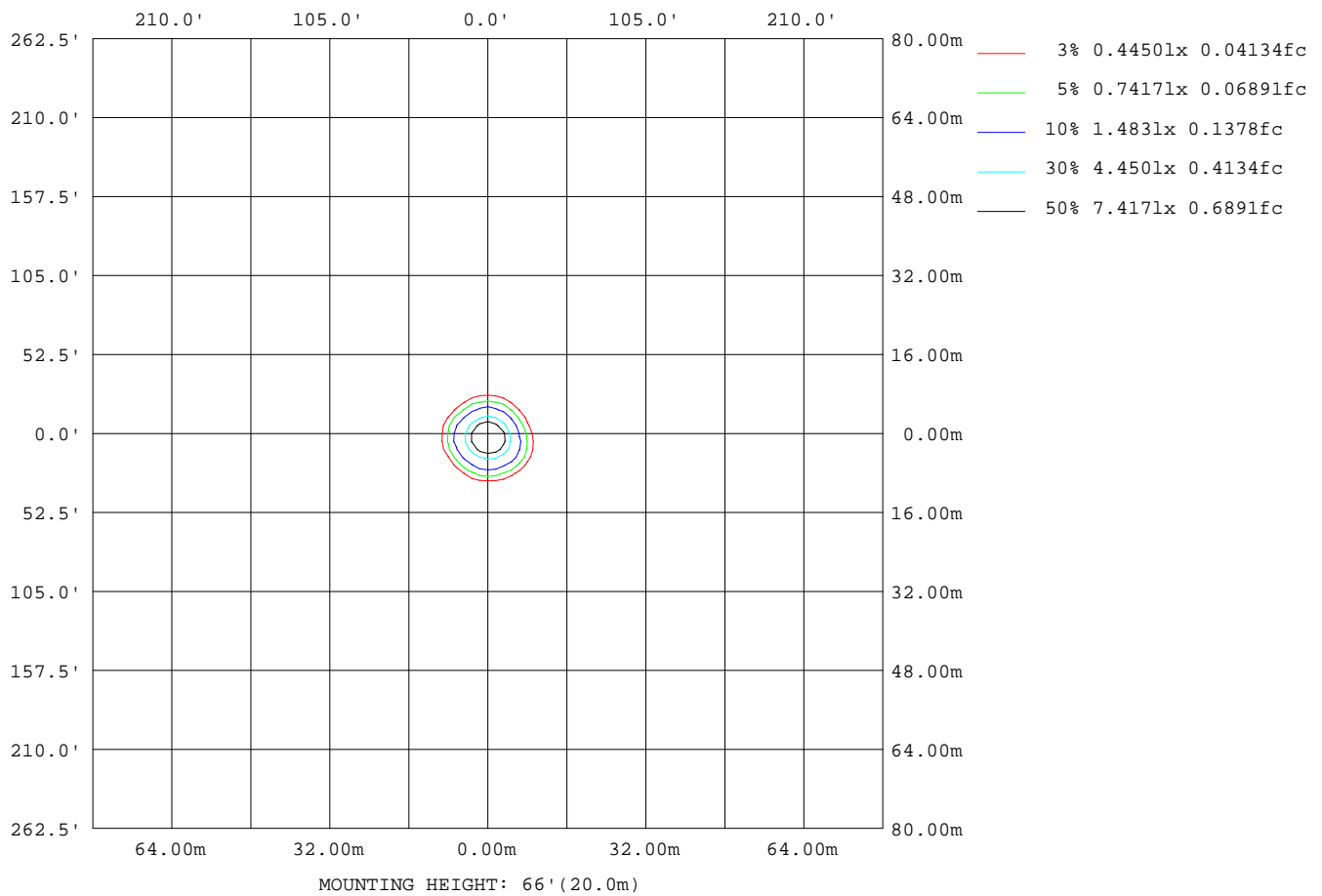
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature:23DEG  
 Operators:xyj  
 Test Date:2018-02-26

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: EN-TLO015-31 WHITE	TYPE:LED TRACK LIGHT	WEIGHT:
SPEC.:CRI80 3000K Small	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: MEDIUM  
Temperature:23DEG  
Operators:xyj  
Test Date:2018-02-26

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: EN-TLO015-31 WHITE	TYPE:LED TRACK LIGHT	WEIGHT:
SPEC.:CRI80 3000K Small	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

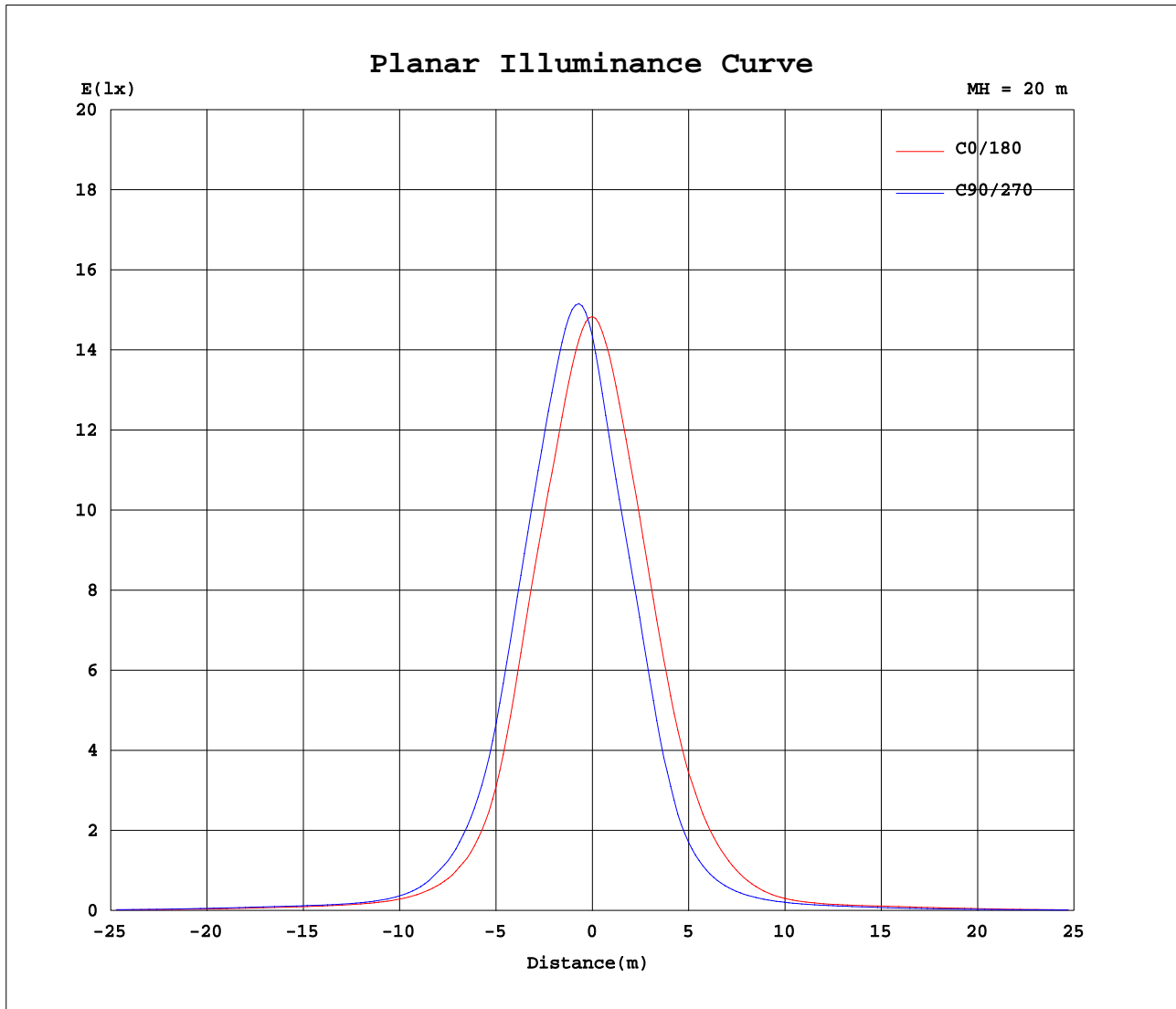
AvgL	cd/m2
L_0~180(65)av	17795
L_0~180(75)av	8763
L_0~180(85)av	0
L_90~270(65)av	17793
L_90~270(75)av	8672
L_90~270(85)av	0
L_45(65)av	18092
L_45(75)av	8861
L_45(85)av	0

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature:23DEG  
 Operators:xyj  
 Test Date:2018-02-26

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: xyj  
Test Date: 2018-02-26

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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: EN-TLO015-31 WHITE	TYPE:LED TRACK LIGHT	WEIGHT:
SPEC.:CRI80 3000K Small	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C(DEC) γ (DEC)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	5679	5679	5679	5679	5679	5679	5679	5679	5679	5679	5679	5679	5679	5679	5679	5679	5679	5679	5679
5	4589	4922	5068	5341	5406	5590	5524	5631	5475	5472	5298	5185	4557	4292	4142	3915	3817	3717	3723
10	2802	3206	3403	3687	3690	3807	3695	3798	3621	3621	3503	3474	2707	2419	2159	1888	1794	1698	1767
15	1057	1375	1631	1808	1759	1794	1682	1728	1608	1609	1602	1652	1245	1077	836	692	645	603	608
20	408	545	695	740	694	693	665	690	637	622	639	673	517	471	340	282	263	248	250
25	188	230	282	295	272	272	261	272	250	243	247	264	206	190	155	140	134	130	132
30	110	123	140	145	138	138	135	140	134	129	131	135	113	106	95.5	91.3	88.7	87.6	88.4
35	81.0	89.2	98.9	102	100	100	99.2	103	102	100.0	102	103	88.1	82.8	75.0	70.5	67.9	66.4	66.9
40	63.3	71.9	81.2	86.0	85.7	85.9	85.4	88.9	87.2	86.4	87.3	89.5	74.4	68.8	59.9	53.8	50.5	48.4	48.4
45	45.5	51.7	60.5	64.8	64.4	64.2	63.2	65.3	62.7	61.6	61.5	63.2	51.8	47.8	41.9	38.8	36.8	35.3	34.9
50	30.7	33.3	36.7	38.6	38.6	39.1	38.6	39.7	38.2	38.1	38.6	40.2	33.4	31.6	29.3	27.9	26.8	26.1	25.9
55	22.1	23.5	25.1	26.2	26.5	27.2	27.3	28.1	27.2	27.5	28.1	29.1	24.7	23.7	22.3	21.5	20.6	20.2	20.0
60	17.4	18.3	19.1	19.9	20.1	20.6	20.7	21.3	20.7	21.1	21.8	22.6	19.3	18.6	17.7	17.1	16.6	16.2	16.2
65	13.2	14.1	14.5	15.3	15.3	15.8	15.6	16.2	15.5	16.0	16.3	17.0	14.0	13.3	12.8	12.2	11.9	11.5	11.6
70	7.42	7.84	7.87	8.21	8.14	8.44	8.29	8.62	8.36	8.64	8.97	9.48	7.87	7.65	7.60	7.37	7.24	7.13	7.06
75	4.34	4.59	4.53	4.76	4.59	4.59	4.35	4.51	4.05	4.36	4.52	4.90	3.87	3.84	3.94	3.79	3.92	3.70	3.77
80	1.12	1.26	1.14	1.18	1.00	0.92	0.71	0.69	0.54	0.65	0.69	0.97	0.73	0.79	0.95	0.89	0.95	0.81	0.81
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	2.09	1.64	1.23	0.89	0.76	0.53	0.51	0.44	0.65	0.80	1.27	1.59	0.24	0.54	0.81	1.08	1.14	1.26	1.16
140	4.81	4.38	3.91	3.59	3.42	3.24	3.22	3.20	3.40	3.68	4.18	4.59	2.65	3.05	3.42	3.79	3.91	4.14	4.11
145	7.43	7.08	6.68	6.41	6.30	6.19	6.24	6.31	6.52	6.73	7.25	7.60	5.51	5.92	6.31	6.70	6.81	7.11	7.10
150	9.32	9.09	8.76	8.67	8.57	8.60	8.67	8.86	8.97	9.18	9.57	9.94	8.06	8.37	8.68	9.01	9.11	9.38	9.41
155	10.2	10.1	9.97	10.0	9.98	10.1	10.2	10.4	10.5	10.6	11.0	11.3	9.72	9.88	10.1	10.3	10.3	10.6	10.7
160	10.3	10.3	10.2	10.4	10.5	10.7	10.8	11.1	11.0	11.1	11.5	11.8	10.3	10.3	10.3	10.3	10.4	10.6	10.7
165	9.11	9.23	9.26	9.65	9.94	10.2	10.3	10.6	10.5	10.5	10.64	10.9	9.47	9.29	9.01	8.92	9.05	9.18	9.27
170	6.91	7.16	7.45	7.80	8.03	8.44	8.53	8.83	8.62	8.64	8.80	8.76	7.46	7.27	7.07	6.78	6.62	6.63	6.67
175	4.92	5.16	5.48	5.86	6.03	6.17	6.20	6.43	6.34	6.35	6.36	6.21	5.40	5.32	5.28	5.20	4.94	4.76	4.59
180	4.50	4.58	4.70	4.86	4.73	4.64	4.60	4.58	4.57	4.78	4.80	4.77	4.50	4.57	4.71	4.86	4.73	4.63	4.60

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: MEDIUM  
Temperature:23DEG  
Operators:xyj  
Test Date:2018-02-26

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: EN-TLO015-31 WHITE	TYPE:LED TRACK LIGHT	WEIGHT:
SPEC.:CRI80 3000K Small	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	5679	5679	5679	5679	5679														
5	3736	3831	3906	4126	4291														
10	1822	1987	2084	2394	2569														
15	605	648	685	815	920														
20	251	265	277	316	352														
25	135	140	144	159	173														
30	90.6	93.1	94.7	102	109														
35	68.5	70.0	71.4	76.7	81.9														
40	49.2	50.6	51.7	55.7	61.0														
45	35.5	36.5	37.3	39.8	44.1														
50	26.2	26.8	27.3	28.8	31.1														
55	20.1	20.3	20.7	21.6	22.9														
60	16.4	16.5	16.7	17.5	18.2														
65	11.6	11.9	11.9	12.8	13.3														
70	6.97	6.99	7.06	7.53	7.82														
75	3.62	3.65	3.68	4.11	4.12														
80	0.69	0.71	0.65	0.83	0.87														
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	1.17	0.95	0.91	0.80	0.77														
140	4.20	3.92	3.80	3.61	3.51														
145	7.28	6.99	6.88	6.74	6.63														
150	9.60	9.39	9.33	9.30	9.30														
155	10.8	10.7	10.7	10.8	10.9														
160	10.9	10.7	10.6	10.9	11.1														
165	9.35	9.29	9.10	9.29	9.67														
170	6.70	6.69	6.65	6.94	7.11														
175	4.73	4.83	4.83	4.88	5.04														
180	4.58	4.56	4.77	4.80	4.76														

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature:23DEG  
 Operators:xyj  
 Test Date:2018-02-26

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: