

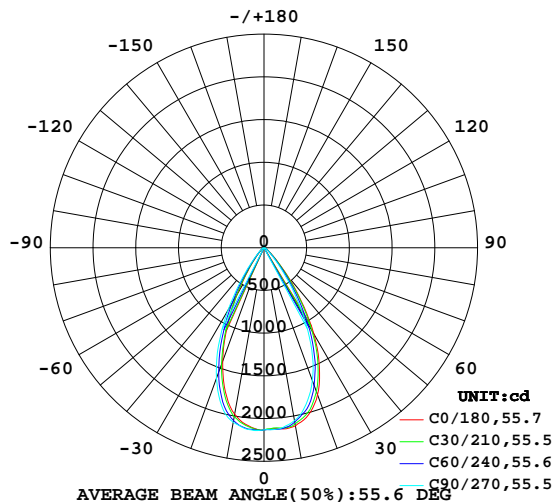
TLO020-21 36V500mA CXM-14-30-90-36-UC40 56D 3000K CRI90 NA

## LUMINAIRE PHOTOMETRIC TEST REPORT

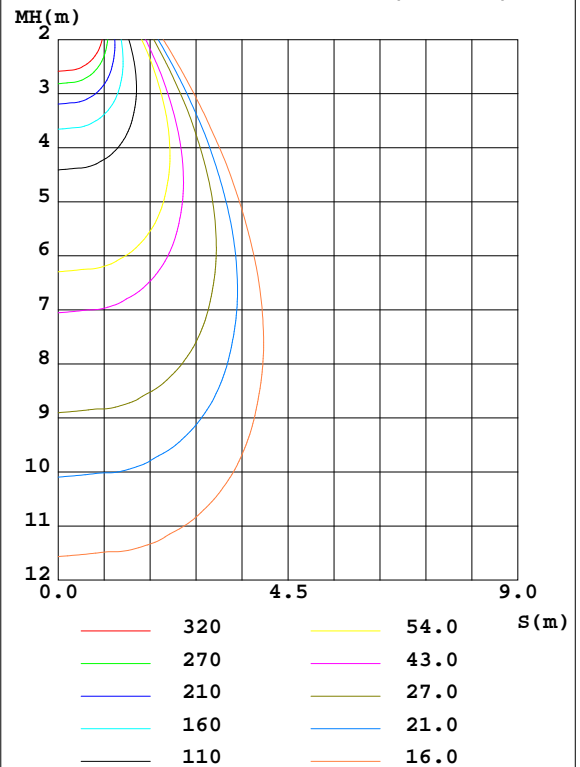
NAME: TLO020-21	TYPE: 56D	WEIGHT:
SPEC.: 3000K CRI90	DIM.:	SERIAL No.:
MFR.:	SUR.: 64	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 102.08 lm/W			
MODEL		Imax(cd)	2147	S/MH(C0/180)	0.75
NOMINAL POWER(W)	20	LOR(%)	100.0	S/MH(C90/270)	0.82
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1883.3	$\eta$ UP,DN(C0-180)	1.2,51.8
NOMINAL FLUX(lm)	1883.3	CIE CLASS	DIRECT	$\eta$ UP,DN(C180-360)	1.2,45.9
LAMPS INSIDE	1	$\eta$ up(%)	2.4	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	120	$\eta$ down(%)	97.6	CIBSE SHR MAX	0.85

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 28DEG  
Operators: LXJ  
Test Date: 2024-11-21

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.401  
Humidity: 65.0%  
Test Distance: 5.190m [K=1.0000]  
Remarks:

TLO020-21 36V500mA CXM-14-30-90-36-UC40 56D 3000K CRI90 NA

## ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\%lum, lamp$
10	2117	2085	2055	2039	1979	2022	2073	2089	0- 10	200.8	200.8	10.7,10.7
20	1833	1771	1655	1591	1414	1492	1627	1700	10- 20	527.6	728.4	38.7,38.7
30	1169	1096	930.0	833.2	621.7	680.1	836.8	942.3	20- 30	580.8	1309	69.5,69.5
40	422.5	377.9	293.5	241.6	164.7	179.5	231.1	280.2	30- 40	333.5	1643	87.2,87.2
50	109.5	94.43	78.45	68.23	53.32	57.50	69.26	79.69	40- 50	113.8	1757	93.3,93.3
60	43.56	39.69	34.91	31.92	27.04	29.10	33.19	36.26	50- 60	45.03	1802	95.7,95.7
70	22.55	21.05	17.48	15.31	11.65	12.87	15.57	17.65	60- 70	24.67	1826	97.97
80	7.967	7.251	4.961	3.550	1.528	1.855	3.362	4.746	70- 80	10.59	1837	97.5,97.5
90	1.240	0.9319	0.6550	0.5399	0.5285	0.4718	0.4556	0.4602	80- 90	2.030	1839	97.6,97.6
100	0.6775	0.7104	0.7710	0.8499	0.9341	0.8331	0.7499	0.6655	90-100	0.6820	1840	97.7,97.7
110	1.330	1.404	1.672	1.873	2.216	2.023	1.682	1.501	100-110	1.215	1841	97.7,97.7
120	3.210	3.410	4.002	4.427	5.091	4.699	4.051	3.647	110-120	2.709	1844	97.9,97.9
130	6.783	7.082	8.023	8.574	9.513	8.906	8.002	7.446	120-130	5.283	1849	98.2,98.2
140	11.50	11.89	12.93	13.57	14.57	13.84	12.87	12.19	130-140	8.031	1857	98.6,98.6
150	16.30	16.60	17.55	18.03	18.80	18.15	17.38	16.72	140-150	9.536	1866	99.1,99.1
160	19.61	19.83	20.56	20.68	21.03	20.66	20.40	19.69	150-160	8.766	1875	99.6,99.6
170	21.78	21.54	21.93	22.19	22.73	22.31	22.03	21.63	160-170	5.982	1881	99.9,99.9
180	23.71	23.65	23.36	23.69	23.70	23.66	23.34	23.69	170-180	2.158	1883	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

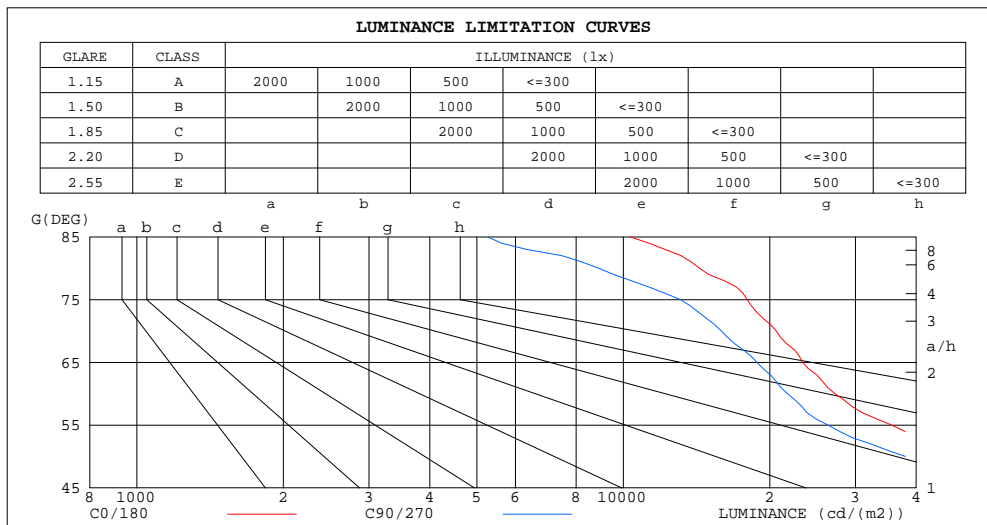
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:28DEG  
 Operators:LXJ  
 Test Date:2024-11-21

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.401  
 Humidity:65.0%  
 Test Distance:5.190m [K=1.0000]  
 Remarks:

TLO020-21 36V500mA CXM-14-30-90-36-UC40 56D 3000K CRI90 NA

## LUMINANCE LIMITATION CURVES

NAME: TLO020-21	TYPE:56D	WEIGHT:
SPEC.:3000K CRI90	DIM.:	SERIAL No.:
MFR.:	SUR.:64	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 28DEG  
Operators: LXJ  
Test Date: 2024-11-21

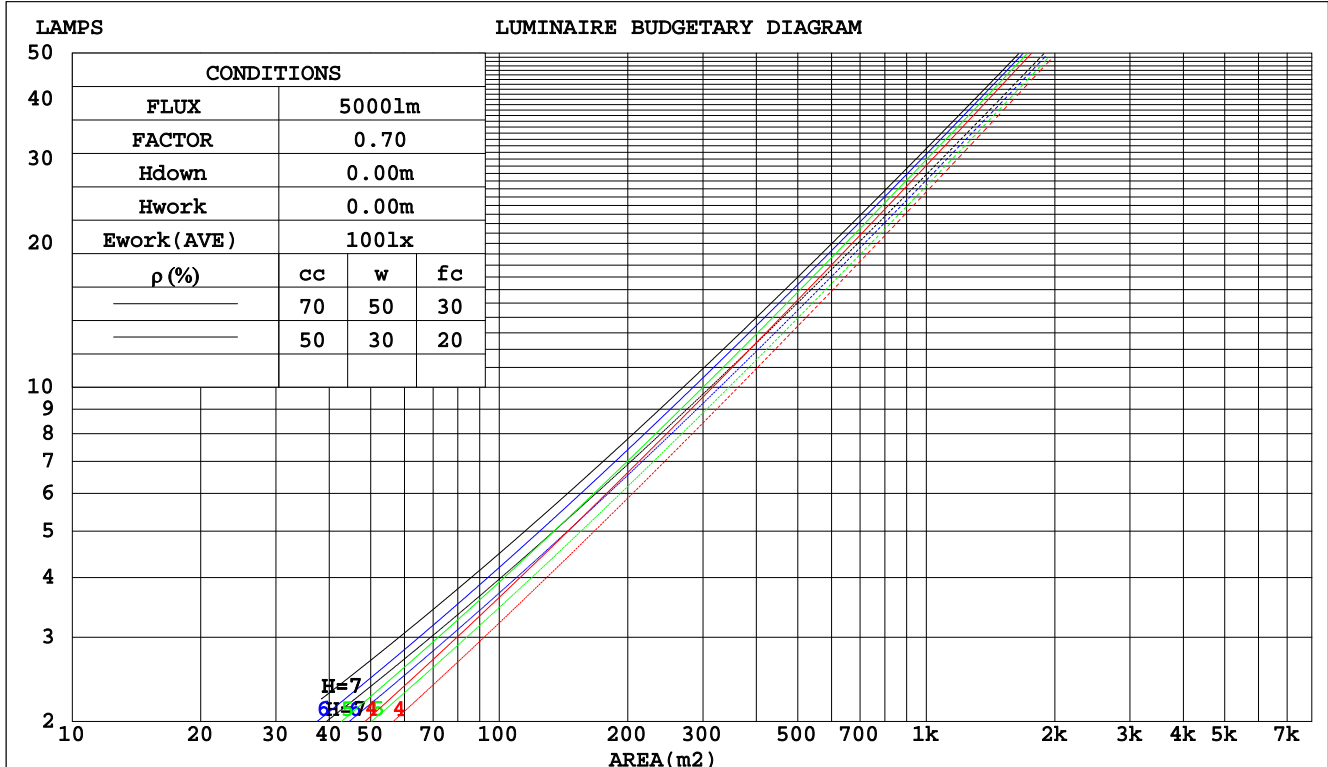
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.401  
Humidity: 65.0%  
Test Distance: 5.190m [K=1.0000]  
Remarks:

TLO020-21 36V500mA CXM-14-30-90-36-UC40 56D 3000K CRI90 NA

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: TLO020-21	TYPE:56D	WEIGHT:
SPEC.:3000K CRI90	DIM.:	SERIAL No.:
MFR.:	SUR.:64	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	1.18	1.18	1.18	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	.98	.94	.00	.96	.93	.96	.93	.90	.93	.90	.88	.90	.88	.86	.84
3.0	.95	.89	.85	.93	.88	.85	.90	.86	.83	.87	.84	.81	.85	.82	.80	.78
4.0	.88	.83	.78	.87	.82	.78	.84	.80	.76	.82	.78	.75	.80	.77	.74	.73
5.0	.83	.77	.72	.81	.76	.72	.79	.75	.71	.77	.73	.70	.76	.72	.69	.68
6.0	.77	.71	.67	.76	.71	.67	.75	.70	.66	.73	.69	.65	.72	.68	.65	.63
7.0	.73	.67	.62	.72	.66	.62	.70	.65	.62	.69	.64	.61	.68	.64	.61	.59
8.0	.69	.62	.58	.68	.62	.58	.67	.61	.58	.65	.61	.57	.64	.60	.57	.56
9.0	.65	.59	.55	.64	.58	.55	.63	.58	.54	.62	.57	.54	.61	.57	.54	.52
10.0	.61	.55	.52	.61	.55	.51	.60	.55	.51	.59	.54	.51	.58	.54	.51	.49



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:28DEG  
Operators:LXJ  
Test Date:2024-11-21

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.401  
Humidity:65.0%  
Test Distance:5.190m [K=1.0000]  
Remarks:

TLO020-21 36V500mA CXM-14-30-90-36-UC40 56D 3000K CRI90 NA

### WEC AND CCEC

NAME: TLO020-21	TYPE:56D	WEIGHT:
SPEC.:3000K CRI90	DIM.:	SERIAL No.:
MFR.:	SUR.:64	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	.186	.106	.034	.179	.102	.032	.165	.094	.030	.152	.087	.028	.140	.081	.026	
2.0	.178	.097	.030	.171	.094	.029	.159	.089	.028	.148	.083	.026	.138	.078	.025	
3.0	.169	.090	.027	.163	.087	.026	.153	.083	.025	.143	.079	.024	.135	.075	.023	
4.0	.160	.083	.024	.155	.081	.024	.146	.078	.023	.138	.074	.022	.130	.071	.022	
5.0	.152	.077	.022	.148	.076	.022	.140	.073	.021	.132	.070	.021	.126	.067	.020	
6.0	.144	.072	.021	.141	.071	.020	.134	.069	.020	.127	.066	.019	.121	.064	.019	
7.0	.138	.068	.019	.134	.067	.019	.128	.065	.019	.122	.063	.018	.117	.061	.018	
8.0	.131	.064	.018	.128	.063	.018	.123	.061	.018	.118	.060	.017	.113	.058	.017	
9.0	.126	.061	.017	.123	.060	.017	.118	.058	.017	.113	.057	.016	.109	.055	.016	
10.0	.120	.058	.016	.118	.057	.016	.113	.055	.016	.109	.054	.015	.105	.053	.015	

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	.208	.208	.208	.178	.178	.178	.122	.122	.122	.070	.070	.070	.022	.022	.022	
1.0	.190	.175	.162	.162	.150	.140	.111	.104	.097	.064	.060	.056	.020	.019	.018	
2.0	.175	.151	.130	.150	.130	.112	.103	.090	.078	.059	.052	.046	.019	.017	.015	
3.0	.163	.132	.107	.140	.114	.093	.096	.079	.065	.056	.046	.038	.018	.015	.013	
4.0	.153	.117	.090	.132	.101	.078	.090	.071	.055	.052	.041	.033	.017	.013	.011	
5.0	.145	.106	.077	.124	.092	.067	.086	.064	.047	.050	.038	.028	.016	.012	.009	
6.0	.137	.097	.068	.118	.084	.059	.081	.059	.042	.047	.034	.025	.015	.011	.008	
7.0	.131	.089	.060	.113	.077	.052	.078	.054	.037	.045	.032	.022	.015	.010	.007	
8.0	.125	.083	.054	.108	.072	.047	.075	.051	.034	.043	.030	.020	.014	.010	.007	
9.0	.120	.078	.050	.103	.068	.043	.072	.048	.031	.042	.028	.018	.014	.009	.006	
10.0	.115	.074	.046	.099	.064	.040	.069	.045	.028	.040	.027	.017	.013	.009	.006	

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:28DEG  
Operators:LXJ  
Test Date:2024-11-21

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.401  
Humidity:65.0%  
Test Distance:5.190m [K=1.0000]  
Remarks:

TLO020-21 36V500mA CXM-14-30-90-36-UC40 56D 3000K CRI90 NA

UGR(Unified Glare Rating) Table

NAME: TLO020-21					TYPE:56D			WEIGHT:			
SPEC.:3000K CRI90					DIM.:			SERIAL No.:			
MFR.:					SUR.:64			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		22.6	23.6	22.9	23.8	24.0	21.2	22.1	21.4	22.4	22.6
3H		22.6	23.5	22.9	23.8	24.0	21.2	22.1	21.5	22.3	22.6
4H		22.6	23.5	23.0	23.7	24.0	21.2	22.1	21.5	22.3	22.6
6H		22.6	23.4	23.0	23.7	24.0	21.2	22.0	21.5	22.3	22.5
8H		22.6	23.4	23.0	23.7	24.0	21.2	21.9	21.5	22.2	22.5
12H		22.6	23.3	22.9	23.6	23.9	21.1	21.8	21.5	22.1	22.5
4H 2H		22.4	23.3	22.7	23.5	23.8	21.1	21.9	21.4	22.2	22.4
3H		22.5	23.3	22.9	23.6	23.9	21.2	21.9	21.6	22.2	22.6
4H		22.6	23.2	23.0	23.6	23.9	21.3	21.9	21.6	22.2	22.6
6H		22.6	23.2	23.0	23.6	24.0	21.2	21.8	21.7	22.2	22.6
8H		22.6	23.1	23.0	23.5	24.0	21.2	21.7	21.6	22.1	22.6
12H		22.6	23.1	23.0	23.5	23.9	21.2	21.7	21.6	22.1	22.5
8H 4H		22.5	23.0	22.9	23.4	23.9	21.2	21.7	21.6	22.1	22.5
6H		22.6	23.0	23.0	23.4	23.9	21.2	21.7	21.7	22.1	22.6
8H		22.6	23.0	23.1	23.4	23.9	21.2	21.6	21.7	22.1	22.5
12H		22.6	22.9	23.1	23.4	23.9	21.2	21.5	21.7	22.0	22.5
12H 4H		22.5	22.9	22.9	23.4	23.8	21.2	21.6	21.6	22.1	22.5
6H		22.5	22.9	23.0	23.4	23.9	21.2	21.6	21.7	22.0	22.5
8H		22.6	22.9	23.1	23.4	23.9	21.2	21.5	21.7	22.0	22.5
Variations with the observer position at spacings:											
S = 1.0H		+ 2.4 / - 3.7					+ 1.9 / - 3.5				
1.5H		+ 4.1 / - 3.5					+ 3.3 / - 3.0				
2.0H		+ 3.7 / - 1.8					+ 3.0 / - 1.7				

CIE Pub.117, 1883 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.2)

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:28DEG  
Operators:LXJ  
Test Date:2024-11-21

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.401  
Humidity:65.0%  
Test Distance:5.190m [K=1.0000]  
Remarks:

TLO020-21 36V500mA CXM-14-30-90-36-UC40 56D 3000K CRI90 NA

### UTILIZATION FACTORS TABLE

NAME: TLO020-21	TYPE:56D	WEIGHT:
SPEC.:3000K CRI90	DIM.:	SERIAL No.:
MFR.:	SUR.:64	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	84	77	73	83	77	73	82	76	72	68
0.80	91	85	81	91	85	81	89	84	80	76
1.00	96	90	86	95	90	86	93	89	85	81
1.25	101	95	91	99	94	91	97	93	90	85
1.50	104	98	95	102	97	94	100	96	93	88
2.00	107	102	99	105	101	98	102	99	96	90
2.50	109	104	101	107	103	100	103	100	98	91
3.00	110	107	104	108	105	102	104	102	100	93
4.00	112	109	107	110	108	105	106	104	102	94
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										

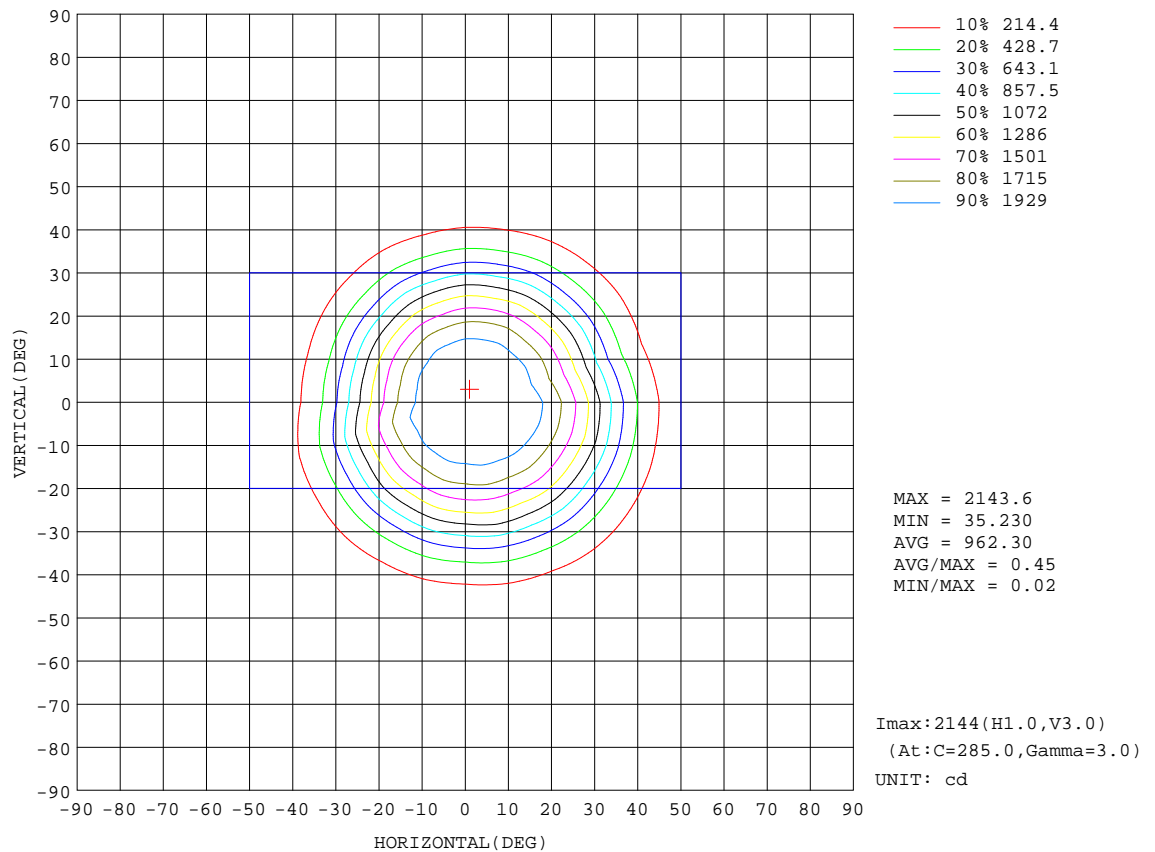
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 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:28DEG  
 Operators:LXJ  
 Test Date:2024-11-21

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.401  
 Humidity:65.0%  
 Test Distance:5.190m [K=1.0000]  
 Remarks:

TLO020-21 36V500mA CXM-14-30-90-36-UC40 56D 3000K CRI90 NA

### ISOCANDELA DIAGRAM

NAME: TLO020-21	TYPE: 56D	WEIGHT:
SPEC.: 3000K CRI90	DIM.:	SERIAL No.:
MFR.:	SUR.: 64	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 28DEG  
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γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.401  
Humidity: 65.0%  
Test Distance: 5.190m [K=1.0000]  
Remarks:

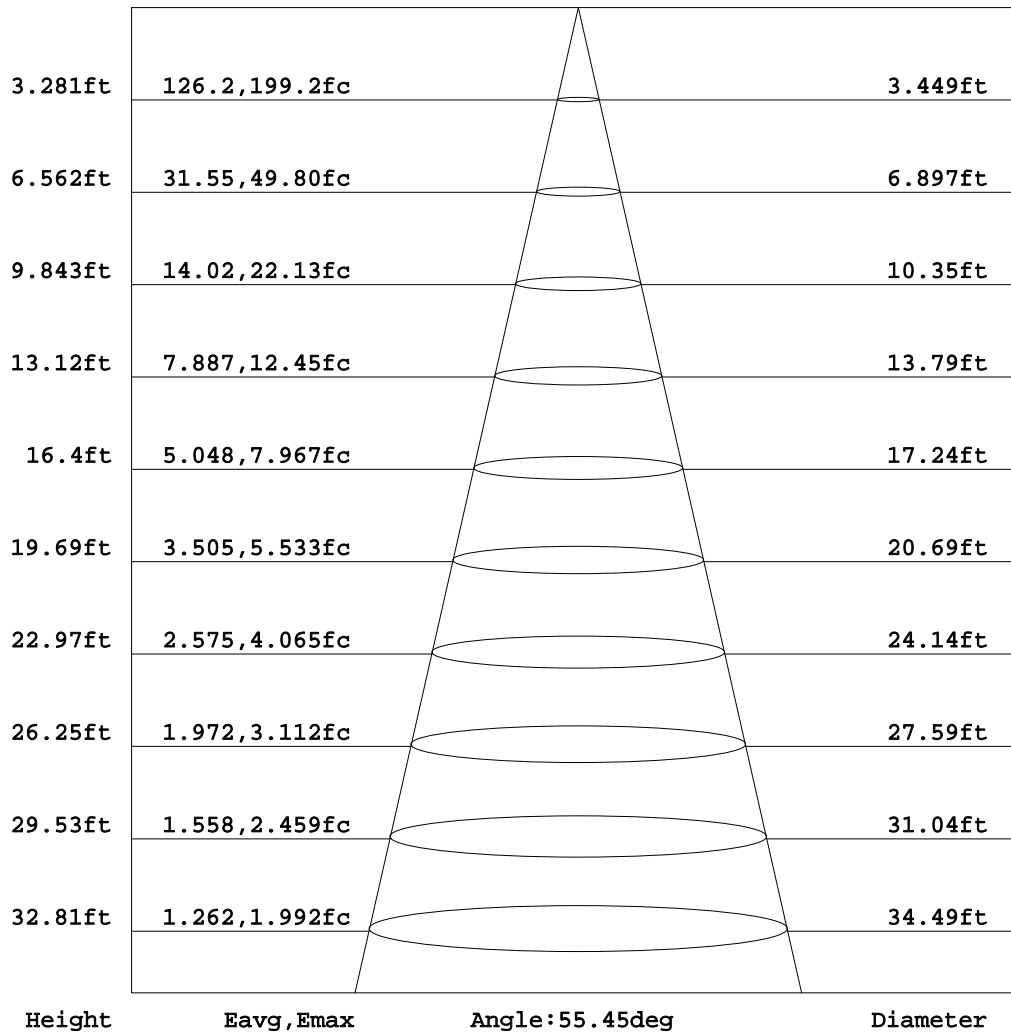


TLO020-21 36V500mA CXM-14-30-90-36-UC40 56D 3000K CRI90 NA

### AAI Figure

NAME: TLO020-21	TYPE:56D	WEIGHT:
SPEC.:3000K CRI90	DIM.:	SERIAL No.:
MFR.:	SUR.:64	Shielding Angle:

Flux out:1206 lm



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

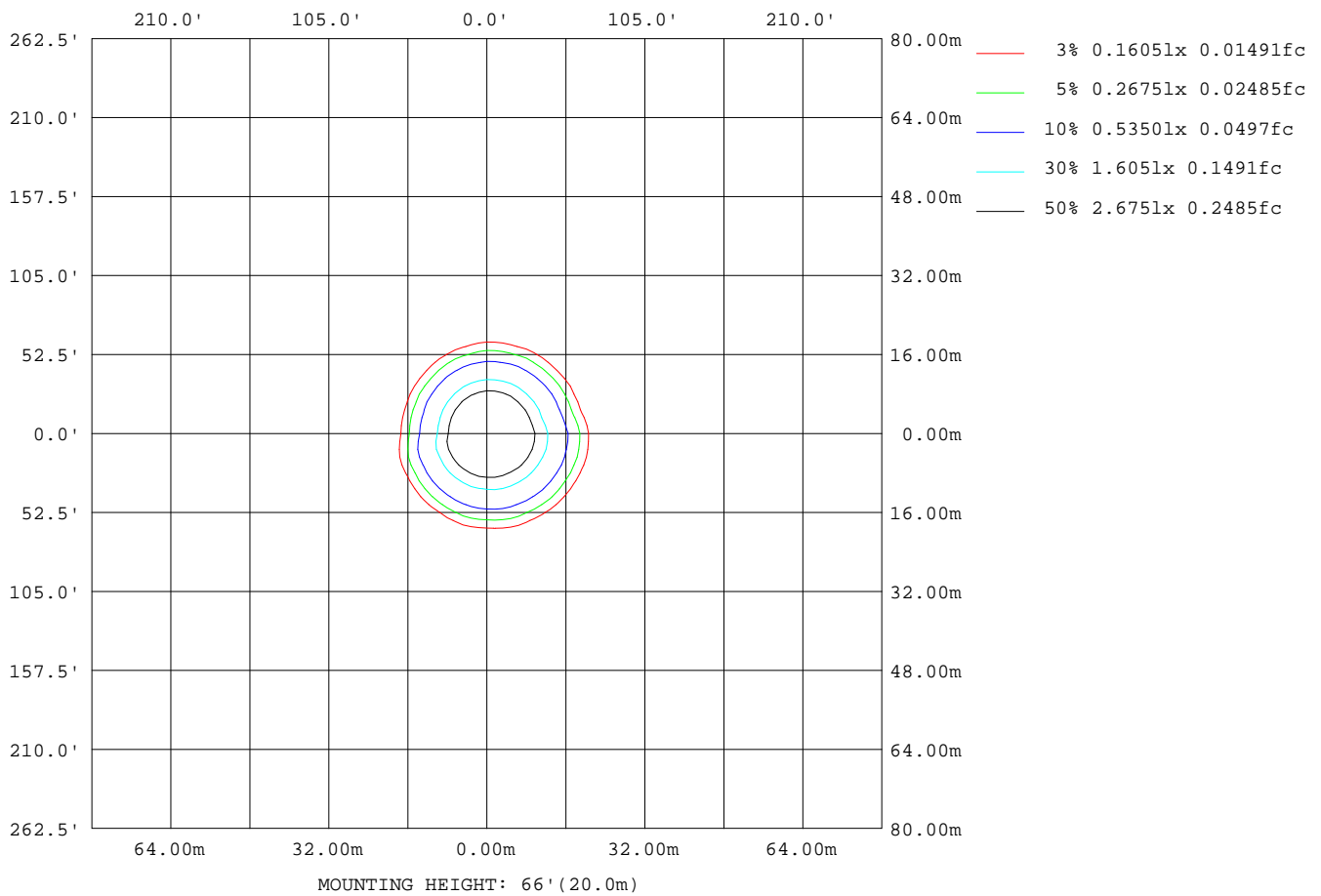
C Range: 0 - 360DEG  
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γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.401  
Humidity: 65.0%  
Test Distance: 5.190m [K=1.0000]  
Remarks:

TLO020-21 36V500mA CXM-14-30-90-36-UC40 56D 3000K CRI90 NA

### ISOLUX DIAGRAM

NAME: TLO020-21	TYPE: 56D	WEIGHT:
SPEC.: 3000K CRI90	DIM.:	SERIAL No.:
MFR.:	SUR.: 64	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 28DEG  
Operators: LXJ  
Test Date: 2024-11-21

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.401  
Humidity: 65.0%  
Test Distance: 5.190m [K=1.0000]  
Remarks:

TLO020-21 36V500mA CXM-14-30-90-36-UC40 56D 3000K CRI90 NA

### LED Avg.L Report

NAME: TLO020-21	TYPE:56D	WEIGHT:
SPEC.:3000K CRI90	DIM.:	SERIAL No.:
MFR.:	SUR.:64	Shielding Angle:

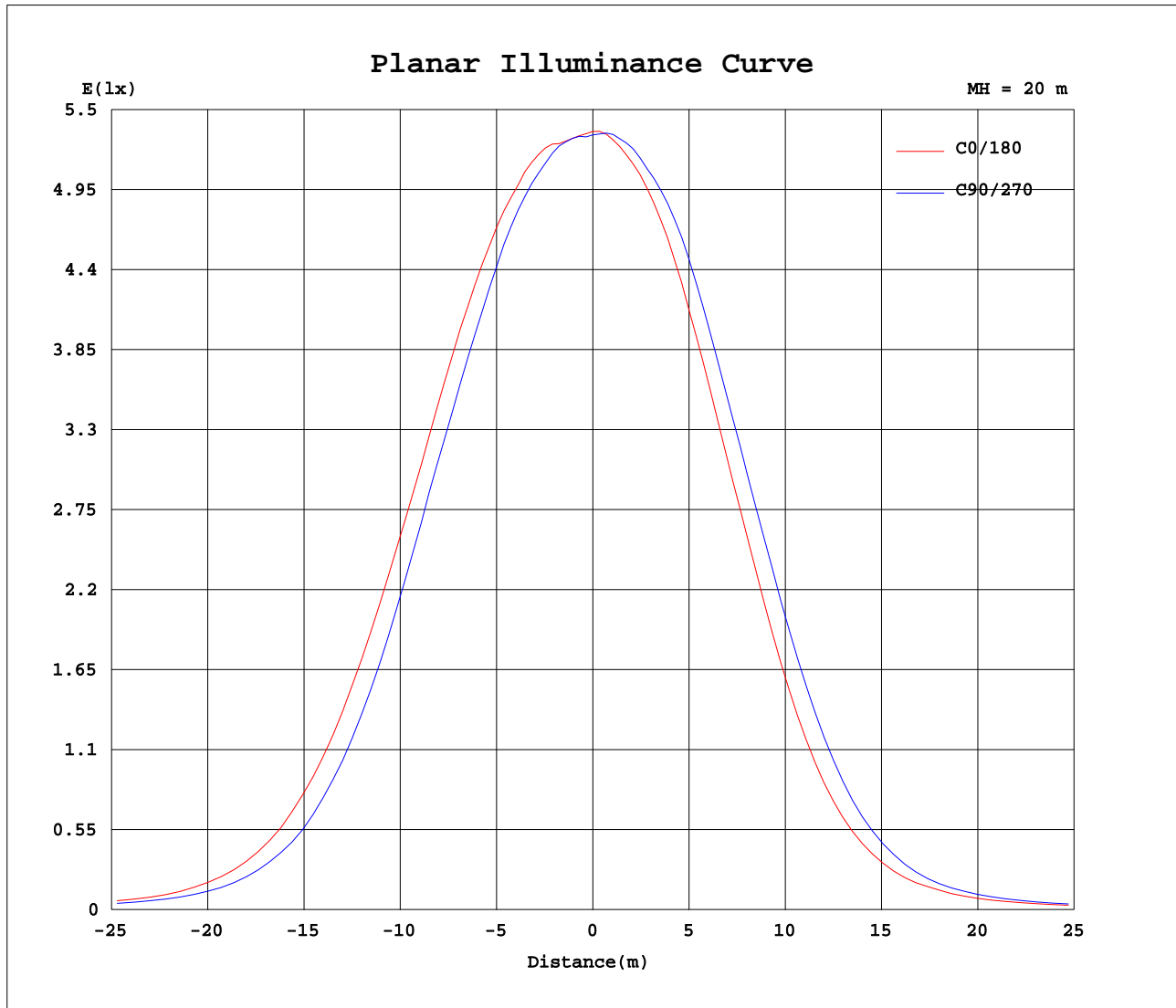
AvgL	cd/m2
L_0~180(65)av	18400
L_0~180(75)av	12159
L_0~180(85)av	6251
L_90~270(65)av	18030
L_90~270(75)av	11533
L_90~270(85)av	4833
L_45(65)av	18128
L_45(75)av	11804
L_45(85)av	5560

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:28DEG  
Operators:LXJ  
Test Date:2024-11-21

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.401  
Humidity:65.0%  
Test Distance:5.190m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 28DEG  
Operators: LXJ  
Test Date: 2024-11-21

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.401  
Humidity: 65.0%  
Test Distance: 5.190m [K=1.0000]  
Remarks:

TLO020-21 36V500mA CXM-14-30-90-36-UC40 56D 3000K CRI90 NA

## LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: TLO020-21	TYPE: 56D	WEIGHT:
SPEC.: 3000K CRI90	DIM.:	SERIAL No.:
MFR.:	SUR.: 64	Shielding Angle:

Table--1

UNIT: cd

C(°) γ (°)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	2132	2132	2132	2132	2132	2132	2132	2132	2132	2132	2132	2132	2132	2132	2132	2132	2132	2132	2132
5	2123	2116	2117	2128	2131	2126	2126	2126	2120	2117	2117	2119	2091	2092	2103	2114	2130	2132	2134
10	2117	2119	2094	2085	2072	2066	2055	2048	2031	2039	2037	2044	1979	1985	2008	2022	2055	2062	2073
15	2020	2012	1994	1977	1950	1934	1901	1902	1874	1867	1847	1860	1748	1745	1782	1814	1867	1878	1917
20	1833	1833	1795	1771	1717	1700	1655	1645	1596	1591	1567	1570	1414	1408	1452	1492	1553	1570	1627
25	1536	1539	1497	1466	1400	1383	1325	1308	1255	1240	1188	1191	1019	1007	1051	1083	1157	1195	1261
30	1169	1187	1126	1096	1026	1003	930	909	854	833	782	780	622	612	649	680	745	768	837
35	764	770	729	697	642	607	562	534	489	474	442	434	329	322	345	364	403	420	465
40	423	424	400	378	339	322	294	278	255	242	223	219	165	161	170	179	199	208	231
45	212	214	198	185	166	158	144	139	125	120	112	111	88.2	86.9	90.9	96.0	105	110	119
50	109	110	101	94.4	86.8	84.2	78.4	75.1	69.8	68.2	65.3	64.3	53.3	52.8	54.7	57.5	62.3	64.8	69.3
55	65.3	64.7	60.0	56.9	52.9	51.3	48.5	47.4	45.0	43.9	42.5	42.6	37.5	37.1	38.5	39.9	42.4	43.6	45.9
60	43.6	43.4	41.2	39.7	37.8	37.0	34.9	34.1	32.4	31.9	30.9	30.7	27.0	26.8	28.0	29.1	30.8	31.6	33.2
65	31.5	31.9	30.4	29.6	28.0	27.3	25.5	25.0	23.3	22.8	21.8	21.6	18.4	18.2	19.1	20.0	21.5	22.1	23.4
70	22.6	22.7	21.5	21.0	19.6	18.9	17.5	17.0	15.8	15.3	14.5	14.4	11.6	11.4	12.2	12.9	14.0	14.6	15.6
75	14.9	15.1	14.2	13.9	12.7	12.2	10.9	10.4	9.07	8.58	7.74	7.57	5.33	5.25	5.69	6.18	6.98	7.47	8.27
80	7.97	8.31	7.58	7.25	6.33	5.90	4.96	4.65	3.87	3.55	2.95	2.86	1.53	1.47	1.61	1.86	2.29	2.67	3.36
85	2.88	3.36	2.98	2.65	2.12	1.86	1.47	1.42	1.38	1.33	1.24	1.21	0.62	0.54	0.73	0.84	1.01	1.11	1.23
90	1.24	1.30	1.22	0.93	1.00	0.90	0.65	0.58	0.54	0.54	0.54	0.56	0.53	0.51	0.50	0.47	0.48	0.45	0.46
95	0.55	0.56	0.55	0.57	0.57	0.60	0.60	0.63	0.63	0.66	0.66	0.69	0.68	0.65	0.65	0.60	0.60	0.56	0.57
100	0.68	0.68	0.68	0.71	0.73	0.76	0.77	0.80	0.81	0.85	0.87	0.90	0.93	0.92	0.89	0.83	0.81	0.77	0.75
105	0.90	0.90	0.92	0.95	1.00	1.04	1.09	1.13	1.18	1.22	1.27	1.31	1.41	1.41	1.33	1.27	1.19	1.15	1.08
110	1.33	1.31	1.37	1.40	1.51	1.56	1.67	1.72	1.82	1.87	1.99	2.01	2.22	2.24	2.10	2.02	1.87	1.81	1.68
115	2.07	2.02	2.15	2.19	2.37	2.44	2.62	2.69	2.86	2.93	3.10	3.12	3.44	3.44	3.28	3.16	2.94	2.85	2.64
120	3.21	3.15	3.33	3.41	3.64	3.76	4.00	4.12	4.31	4.43	4.62	4.68	5.09	5.10	4.88	4.70	4.43	4.28	4.05
125	4.78	4.72	4.90	5.05	5.36	5.51	5.82	5.94	6.20	6.34	6.59	6.63	7.14	7.15	6.88	6.65	6.32	6.16	5.85
130	6.78	6.68	6.89	7.08	7.46	7.63	8.02	8.14	8.43	8.57	8.88	8.90	9.51	9.52	9.19	8.91	8.55	8.35	8.00
135	9.04	8.96	9.21	9.40	9.82	10.0	10.4	10.6	10.9	11.0	11.3	11.4	12.0	12.0	11.7	11.3	11.0	10.7	10.4
140	11.5	11.4	11.7	11.9	12.3	12.5	12.9	13.1	13.4	13.6	13.9	14.0	14.6	14.5	14.2	13.8	13.5	13.2	12.9
145	14.0	13.9	14.2	14.3	14.8	15.0	15.4	15.6	15.8	16.0	16.2	16.4	16.9	16.8	16.5	16.2	15.8	15.6	15.3
150	16.3	16.2	16.5	16.6	17.0	17.2	17.5	17.7	17.9	18.0	18.3	18.4	18.8	18.7	18.4	18.2	17.9	17.7	17.4
155	18.2	18.1	18.3	18.5	18.8	19.0	19.3	19.4	19.6	19.6	19.9	19.9	20.2	20.0	19.8	19.7	19.5	19.4	19.1
160	19.6	19.5	19.6	19.8	20.2	20.3	20.6	20.6	20.7	20.7	20.8	20.9	21.0	21.0	20.8	20.7	20.6	20.6	20.4
165	20.8	20.6	20.6	20.7	21.1	21.2	21.4	21.5	21.4	21.5	21.6	21.7	21.9	21.9	21.6	21.5	21.4	21.5	21.3
170	21.8	21.6	21.5	21.5	21.7	21.8	21.9	22.0	22.0	22.2	22.4	22.6	22.7	22.7	22.5	22.3	22.2	22.1	22.0
175	22.8	22.6	22.6	22.7	22.8	22.6	22.6	22.7	22.9	23.2	23.3	23.2	23.4	23.4	23.4	23.4	23.1	22.9	22.8
180	23.7	23.6	23.6	23.7	23.5	23.3	23.4	23.3	23.5	23.7	23.6	23.6	23.7	23.6	23.6	23.7	23.5	23.4	23.3

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 28DEG  
Operators: LXJ  
Test Date: 2024-11-21

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.401  
Humidity: 65.0%  
Test Distance: 5.190m [K=1.0000]  
Remarks:

TLO020-21 36V500mA CXM-14-30-90-36-UC40 56D 3000K CRI90 NA

### LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: TLO020-21	TYPE: 56D	WEIGHT:
SPEC.: 3000K CRI90	DIM.:	SERIAL No.:
MFR.:	SUR.: 64	Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	2132	2132	2132	2132	2132														
5	2138	2139	2138	2146	2143														
10	2085	2098	2089	2091	2098														
15	1932	1956	1959	1982	1970														
20	1656	1703	1700	1737	1727														
25	1278	1346	1354	1395	1405														
30	855	925	942	992	992														
35	483	537	555	594	603														
40	242	271	280	307	314														
45	124	136	139	154	155														
50	72.4	76.3	79.7	84.3	86.3														
55	47.1	49.6	50.7	53.5	54.2														
60	33.9	35.8	36.3	37.8	38.0														
65	24.0	25.7	26.0	27.4	27.6														
70	16.0	17.3	17.6	18.7	18.9														
75	8.77	10.1	10.6	11.8	12.0														
80	3.73	4.46	4.75	5.37	5.62														
85	1.30	1.36	1.40	1.49	1.09														
90	0.44	0.44	0.46	0.68	0.70														
95	0.53	0.53	0.50	0.51	0.50														
100	0.71	0.69	0.67	0.66	0.65														
105	1.04	0.98	0.96	0.93	0.92														
110	1.63	1.52	1.50	1.41	1.41														
115	2.59	2.40	2.38	2.23	2.24														
120	3.94	3.74	3.65	3.49	3.47														
125	5.72	5.46	5.36	5.16	5.14														
130	7.86	7.55	7.45	7.21	7.19														
135	10.2	9.89	9.74	9.53	9.50														
140	12.7	12.3	12.2	12.0	12.0														
145	15.1	14.7	14.6	14.4	14.4														
150	17.2	16.9	16.7	16.5	16.6														
155	18.9	18.6	18.5	18.2	18.3														
160	20.2	20.0	19.7	19.5	19.6														
165	21.2	20.9	20.6	20.6	20.7														
170	22.0	21.8	21.6	21.6	21.7														
175	22.8	23.0	22.9	22.7	22.8														
180	23.3	23.5	23.7	23.6	23.6														

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 28DEG  
Operators: LXJ  
Test Date: 2024-11-21

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.401  
Humidity: 65.0%  
Test Distance: 5.190m [K=1.0000]  
Remarks: