

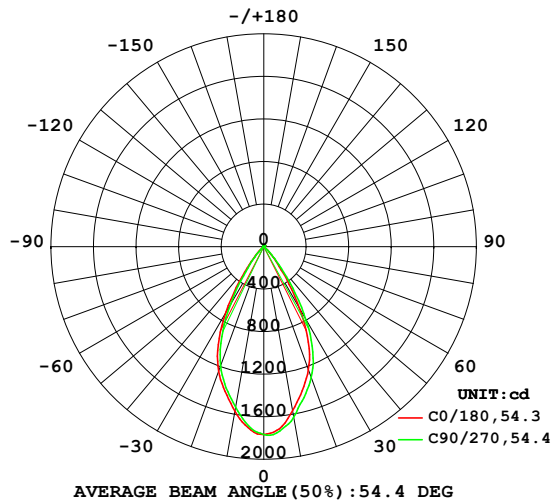
TLO020-31 36V500mA CHM-6-30-90-36-BH40-F4-3 54.4D 3000K CRI90 NA

LUMINAIRE PHOTOMETRIC TEST REPORT

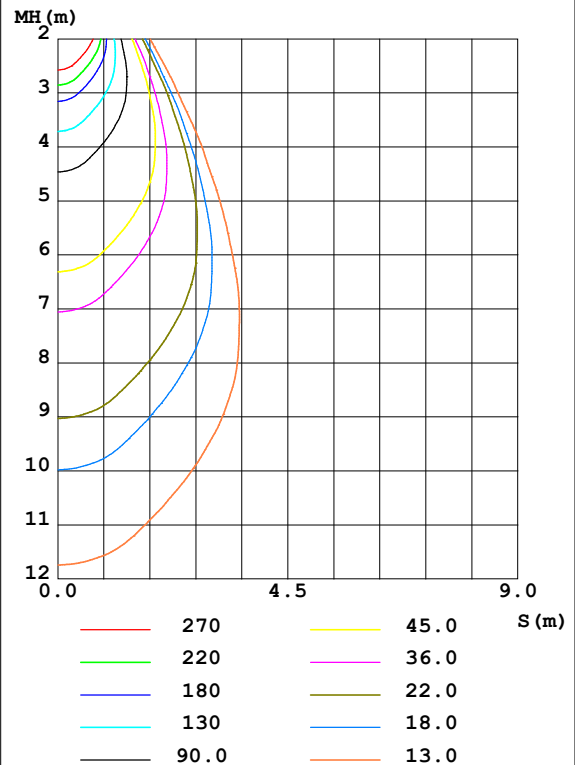
NAME: TLO020-31	TYPE: 54.4D	WEIGHT: 1
SPEC.: 3000K CRI90	DIM.:	SERIAL No.:
MFR.:	SUR.: 65	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 64.54 lm/W
MODEL		I _{max} (cd)	1783	S/MH (C0/180)	0.83	
NOMINAL POWER (W)	20	LOR (%)	100.0	S/MH (C90/270)	0.80	
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	1365.6	η UP, DN (C0-180)	1.2, 52.1	
NOMINAL FLUX (lm)	1365.57	CIE CLASS	DIRECT	η UP, DN (C180-360)	1.2, 45.5	
LAMPS INSIDE	1	η up (%)	2.4	CIBSE SHR NOM	0.75	
TEST VOLTAGE (V)	120	η down (%)	97.6	CIBSE SHR MAX	0.85	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT: lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 28DEG
Operators: CJY
Test Date: 2024-08-30

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:

TLO020-31 36V500mA CHM-6-30-90-36-BH40-F4-3 54.4D 3000K CRI90 NA

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1565	1568	1628	1666	1573	1565	1533	1501	0- 10	159.2	159.2	11.7,11.7
20	1229	1241	1307	1336	1245	1243	1192	1145	10- 20	395.4	554.6	40.6,40.6
30	678.5	694.7	792.9	868.9	711.1	713.1	623.5	554.1	20- 30	454.3	1009	73.9,73.9
40	175.5	172.8	220.8	270.6	183.9	190.5	154.6	125.1	30- 40	256.9	1266	92.7,92.7
50	9.021	8.989	19.59	35.29	17.44	15.51	6.578	3.222	40- 50	62.57	1328	97.3,97.3
60	0.9494	0.9452	1.167	1.252	0.9235	0.9565	0.8808	0.7301	50- 60	3.375	1332	97.5,97.5
70	0.3897	0.4111	0.5113	0.5419	0.3758	0.3729	0.3261	0.2648	60- 70	0.6520	1332	97.6,97.6
80	0.2415	0.2460	0.2621	0.2652	0.1914	0.1823	0.1866	0.1805	70- 80	0.2973	1333	97.6,97.6
90	0.2306	0.2306	0.2354	0.2295	0.1850	0.1845	0.1955	0.1961	80- 90	0.2302	1333	97.6,97.6
100	0.3544	0.3664	0.3151	0.2784	0.2852	0.2858	0.3291	0.3681	90-100	0.2669	1333	97.6,97.6
110	1.067	1.097	0.9071	0.7699	0.8691	0.8840	1.063	1.207	100-110	0.6101	1334	97.7,97.7
120	2.975	3.030	2.660	2.352	2.589	2.644	3.043	3.349	110-120	1.765	1336	97.8,97.8
130	6.087	6.142	5.619	5.160	5.617	5.708	6.268	6.689	120-130	3.801	1339	98.1,98.1
140	9.943	9.969	9.485	8.965	9.517	9.615	10.23	10.62	130-140	6.001	1345	98.5,98.5
150	13.46	13.53	13.21	12.78	13.09	13.22	13.70	13.83	140-150	7.270	1353	99.1,99.1
160	15.46	15.61	15.74	15.25	15.33	15.43	15.87	15.61	150-160	6.704	1359	99.5,99.5
170	16.77	16.89	17.16	16.84	16.82	16.89	17.10	16.88	160-170	4.584	1364	99.9,99.9
180	17.76	17.99	18.03	18.02	17.82	18.02	18.06	18.06	170-180	1.654	1366	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

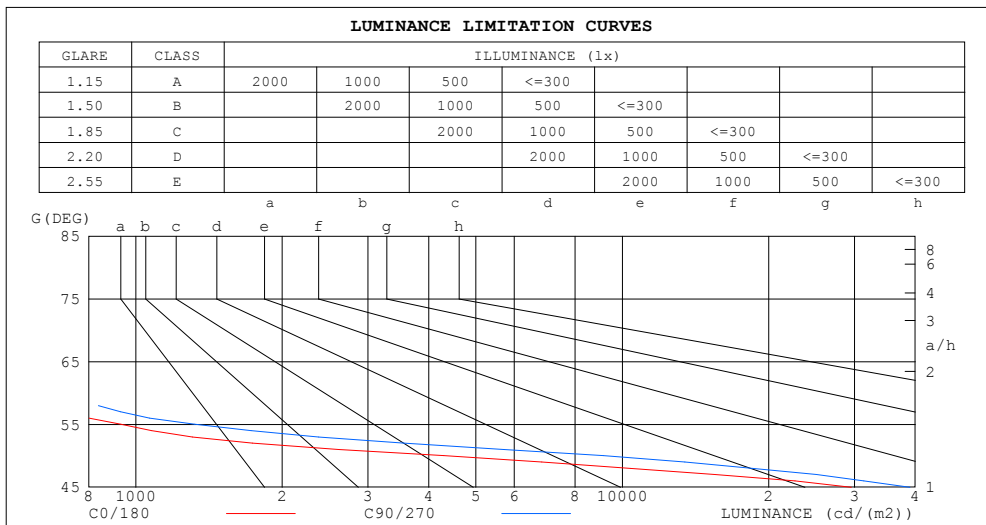
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:28DEG
 Operators:CJY
 Test Date:2024-08-30

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:

TLO020-31 36V500mA CHM-6-30-90-36-BH40-F4-3 54.4D 3000K CRI90 NA

LUMINANCE LIMITATION CURVES

NAME: TLO020-31	TYPE: 54.4D	WEIGHT: 1
SPEC.: 3000K CRI90	DIM.:	SERIAL No.:
MFR.:	SUR.: 65	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	818	833
80	426	453
75	332	386
70	349	448
65	447	558
60	581	700
55	931	1322
50	4298	9142
45	29579	39006

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 28DEG
 Operators: CJY
 Test Date: 2024-08-30

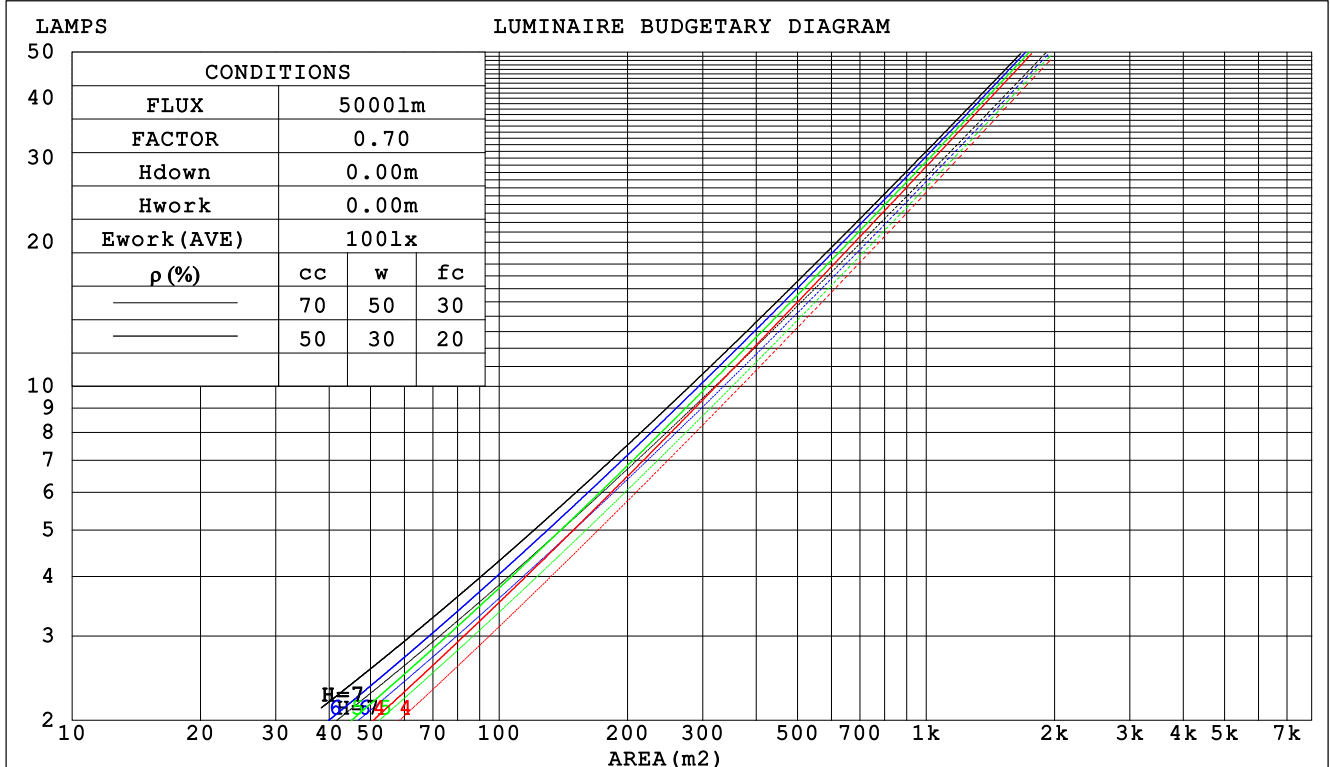
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 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.401
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 Test Distance: 5.190m [K=1.0000]
 Remarks:

TLO020-31 36V500mA CHM-6-30-90-36-BH40-F4-3 54.4D 3000K CRI90 NA

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: TLO020-31	TYPE: 54.4D	WEIGHT: 1
SPEC.: 3000K CRI90	DIM.:	SERIAL No.:
MFR.:	SUR.: 65	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	Coefficients of Utilization(CU)															
RCR:Room Cavity Ratio																
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	1.08	1.06	1.08	1.06	1.04	1.04	1.02	1.00	.99	.98	.97	.96	.95	.94	.92
2.0	1.03	.99	.96	1.01	.98	.95	.97	.95	.92	.94	.92	.90	.91	.89	.88	.86
3.0	.96	.91	.88	.95	.90	.87	.92	.88	.85	.89	.86	.83	.87	.84	.82	.80
4.0	.90	.85	.81	.89	.84	.80	.86	.82	.79	.84	.81	.78	.82	.79	.77	.75
5.0	.85	.79	.75	.84	.78	.74	.82	.77	.74	.80	.76	.73	.78	.75	.72	.70
6.0	.80	.74	.70	.79	.73	.69	.77	.72	.69	.75	.71	.68	.74	.70	.67	.66
7.0	.75	.69	.65	.74	.69	.65	.73	.68	.64	.71	.67	.64	.70	.66	.63	.62
8.0	.71	.65	.61	.70	.65	.61	.69	.64	.61	.68	.63	.60	.67	.63	.60	.58
9.0	.67	.61	.58	.67	.61	.57	.65	.60	.57	.64	.60	.57	.63	.59	.56	.55
10.0	.64	.58	.54	.63	.58	.54	.62	.57	.54	.61	.57	.54	.60	.56	.53	.52



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 28DEG
Operators: CJY
Test Date: 2024-08-30

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:

TLO020-31 36V500mA CHM-6-30-90-36-BH40-F4-3 54.4D 3000K CRI90 NA

WEC AND CCEC

NAME: TLO020-31	TYPE: 54.4D	WEIGHT: 1
SPEC.: 3000K CRI90	DIM.:	SERIAL No.:
MFR.:	SUR.: 65	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	.174	.099	.031	.166	.095	.030	.152	.087	.028	.140	.080	.026	.128	.074	.024		
2.0	.166	.091	.028	.159	.088	.027	.148	.082	.026	.137	.077	.024	.127	.072	.023		
3.0	.158	.084	.025	.152	.082	.025	.142	.077	.023	.133	.073	.022	.124	.069	.021		
4.0	.150	.078	.023	.146	.076	.023	.137	.073	.022	.129	.069	.021	.121	.066	.020		
5.0	.143	.073	.021	.139	.072	.021	.132	.068	.020	.124	.066	.020	.118	.063	.019		
6.0	.137	.069	.020	.133	.067	.019	.126	.065	.019	.120	.062	.018	.114	.060	.018		
7.0	.131	.065	.018	.128	.064	.018	.122	.062	.018	.116	.059	.017	.111	.057	.017		
8.0	.126	.061	.017	.123	.060	.017	.117	.059	.017	.112	.057	.016	.107	.055	.016		
9.0	.120	.058	.016	.118	.057	.016	.113	.056	.016	.108	.054	.016	.104	.053	.015		
10.0	.116	.055	.015	.113	.055	.015	.109	.053	.015	.104	.052	.015	.100	.051	.014		

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	.209	.209	.209	.178	.178	.178	.122	.122	.122	.070	.070	.070	.022	.022	.022	
1.0	.189	.176	.164	.162	.151	.141	.111	.104	.097	.064	.060	.057	.020	.019	.018	
2.0	.174	.151	.132	.149	.130	.114	.102	.090	.079	.059	.052	.047	.019	.017	.015	
3.0	.161	.132	.109	.138	.114	.094	.095	.079	.066	.055	.046	.039	.018	.015	.013	
4.0	.151	.117	.092	.130	.101	.080	.089	.071	.056	.052	.041	.033	.017	.013	.011	
5.0	.143	.106	.079	.122	.092	.069	.084	.064	.048	.049	.038	.029	.016	.012	.009	
6.0	.135	.097	.069	.116	.084	.060	.080	.059	.042	.046	.034	.025	.015	.011	.008	
7.0	.129	.089	.061	.111	.077	.053	.076	.054	.038	.044	.032	.023	.014	.010	.007	
8.0	.123	.083	.055	.106	.072	.048	.073	.050	.034	.043	.030	.020	.014	.010	.007	
9.0	.118	.078	.050	.102	.067	.044	.070	.047	.031	.041	.028	.019	.013	.009	.006	
10.0	.114	.073	.047	.098	.064	.041	.068	.045	.029	.040	.026	.017	.013	.009	.006	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 28DEG
 Operators: CJY
 Test Date: 2024-08-30

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:

TLO020-31 36V500mA CHM-6-30-90-36-BH40-F4-3 54.4D 3000K CRI90 NA

UGR(Unified Glare Rating) Table

NAME: TLO020-31					TYPE:54.4D					WEIGHT:1				
SPEC.:3000K CRI90					DIM.:					SERIAL No.:				
MFR.:					SUR.:65					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					19.2	20.1	19.5	20.3	20.5	19.9	20.8	20.1	21.0	21.2
3H					19.0	19.9	19.3	20.1	20.4	19.7	20.5	20.0	20.8	21.0
4H					19.0	19.7	19.3	20.0	20.3	19.6	20.4	19.9	20.6	20.9
6H					18.9	19.6	19.2	19.9	20.2	19.5	20.2	19.8	20.5	20.8
8H					18.8	19.5	19.2	19.8	20.1	19.5	20.2	19.8	20.5	20.8
12H					18.8	19.4	19.1	19.7	20.1	19.4	20.1	19.8	20.4	20.7
4H 2H					19.0	19.7	19.3	20.0	20.3	19.6	20.4	19.9	20.6	20.9
3H					18.8	19.4	19.1	19.7	20.1	19.4	20.1	19.8	20.4	20.7
4H					18.7	19.3	19.1	19.6	20.0	19.3	19.9	19.7	20.3	20.6
6H					18.6	19.1	19.0	19.5	19.9	19.2	19.7	19.6	20.1	20.5
8H					18.5	19.0	18.9	19.4	19.8	19.2	19.7	19.6	20.0	20.5
12H					18.5	18.9	18.9	19.3	19.8	19.1	19.6	19.6	20.0	20.4
8H 4H					18.5	19.0	18.9	19.4	19.8	19.2	19.6	19.6	20.0	20.5
6H					18.4	18.8	18.9	19.2	19.7	19.0	19.5	19.5	19.9	20.4
8H					18.3	18.7	18.8	19.2	19.6	19.0	19.3	19.5	19.8	20.3
12H					18.3	18.6	18.8	19.1	19.6	18.9	19.2	19.4	19.7	20.2
12H 4H					18.5	18.9	18.9	19.3	19.8	19.1	19.6	19.6	20.0	20.4
6H					18.3	18.7	18.8	19.2	19.6	19.0	19.3	19.5	19.8	20.3
8H					18.3	18.6	18.8	19.1	19.6	18.9	19.2	19.4	19.7	20.2
Variations with the observer position at spacings:														
S = 1.0H					+ 3.3 / -22.5					+ 4.0 / -22.8				
1.5H					+ 5.8 / -21.4					+ 6.4 / -22.1				
2.0H					+ 8.5 / -14.4					+ 8.9 / -15.8				

CIE Pub.117, 1366 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 1.1$)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:28DEG
Operators:CJY
Test Date:2024-08-30

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:

TLO020-31 36V500mA CHM-6-30-90-36-BH40-F4-3 54.4D 3000K CRI90 NA

UTILIZATION FACTORS TABLE

NAME: TLO020-31	TYPE: 54.4D	WEIGHT: 1
SPEC.: 3000K CRI90	DIM.:	SERIAL No.:
MFR.:	SUR.: 65	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) $k(RI) \times RCR = 5$									
$k = 0.60$	87	81	77	86	81	77	85	80	77	73
0.80	94	89	85	94	88	85	92	88	84	81
1.00	99	93	90	98	93	89	96	92	89	85
1.25	103	98	94	102	97	94	99	96	93	88
1.50	105	101	98	104	100	97	102	98	96	91
2.00	108	104	101	106	103	100	103	100	98	92
2.50	110	106	103	108	105	102	104	102	100	93
3.00	111	108	105	109	106	104	106	103	101	94
4.00	113	111	108	111	109	107	107	105	104	96
5.00	114	112	110	112	110	109	108	106	105	97
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

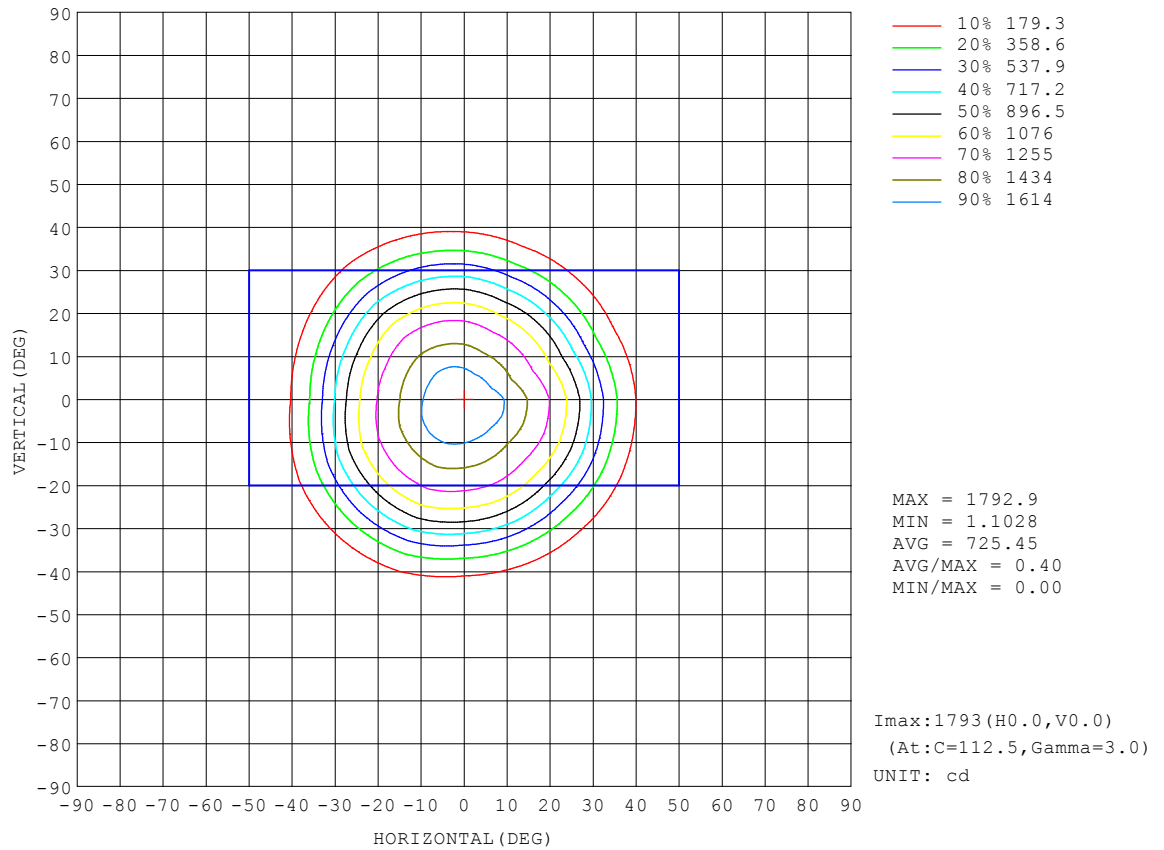
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ISOCANDELA DIAGRAM

NAME: TLO020-31	TYPE: 54.4D	WEIGHT: 1
SPEC.: 3000K CRI90	DIM.:	SERIAL No.:
MFR.:	SUR.: 65	Shielding Angle:



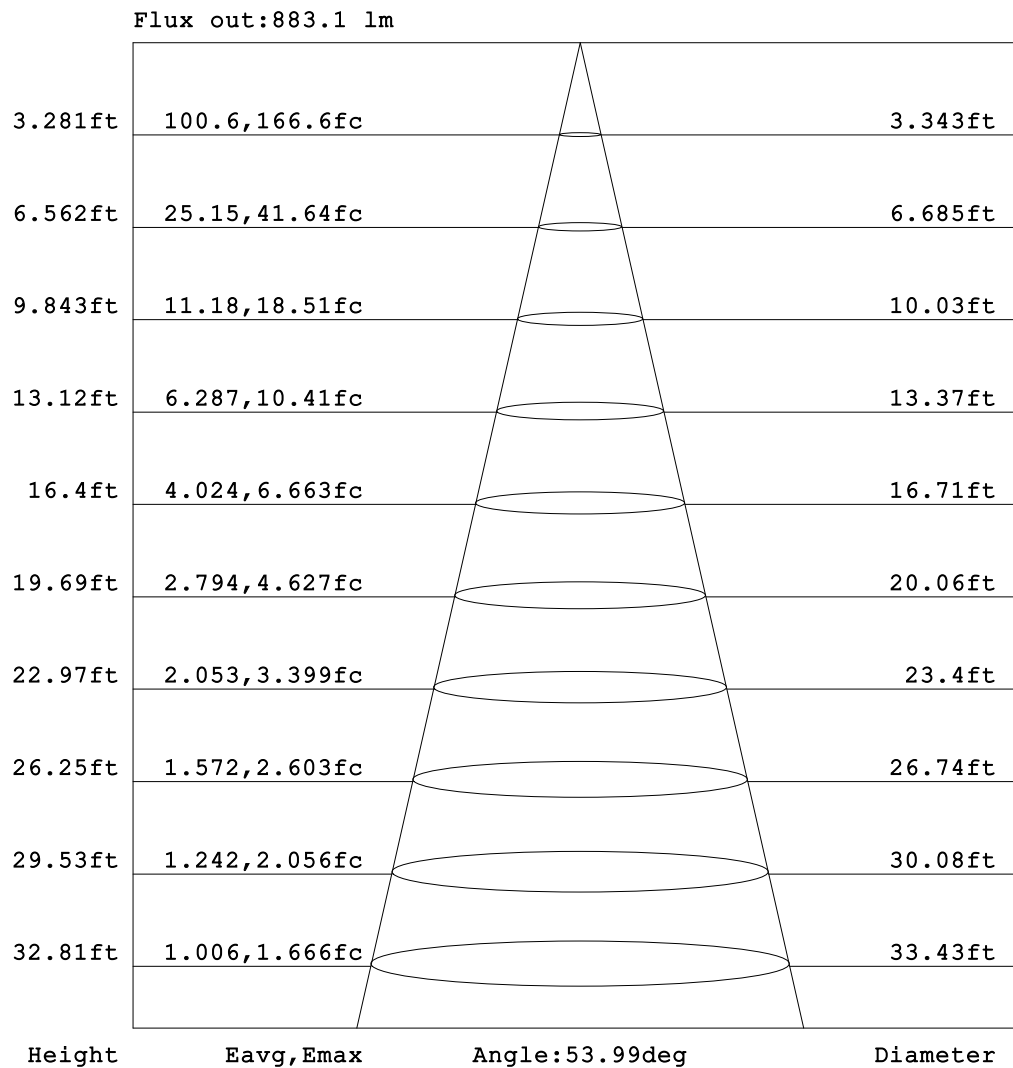
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TLO020-31 36V500mA CHM-6-30-90-36-BH40-F4-3 54.4D 3000K CRI90 NA

AAI Figure

NAME: TLO020-31	TYPE: 54.4D	WEIGHT: 1
SPEC.: 3000K CRI90	DIM.:	SERIAL No.:
MFR.:	SUR.: 65	Shielding Angle:



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

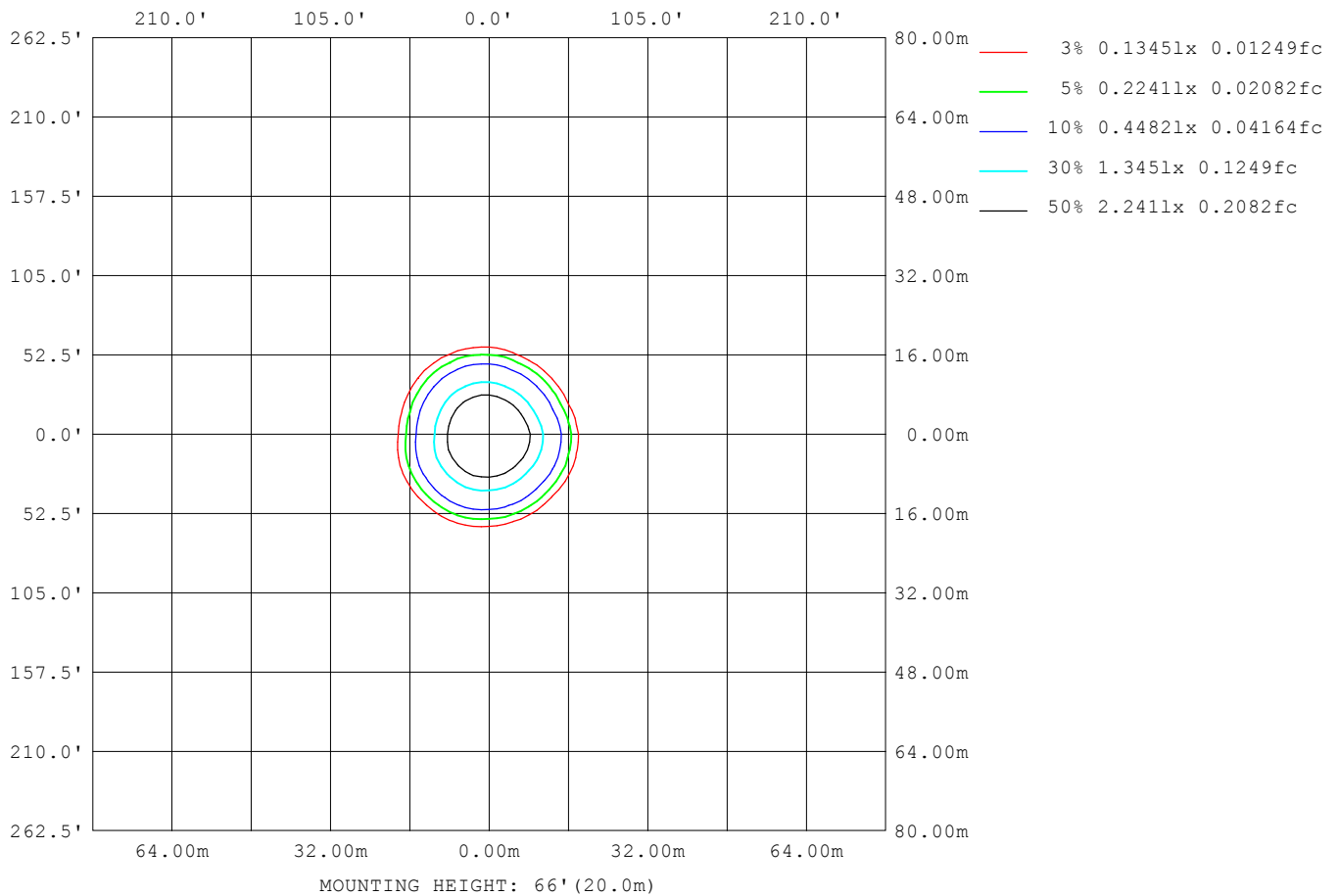
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TLO020-31 36V500mA CHM-6-30-90-36-BH40-F4-3 54.4D 3000K CRI90 NA

ISOLUX DIAGRAM

NAME: TLO020-31	TYPE: 54.4D	WEIGHT: 1
SPEC.: 3000K CRI90	DIM.:	SERIAL No.:
MFR.:	SUR.: 65	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
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Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.401
Humidity: 65.0%
Test Distance: 5.190m [K=1.0000]
Remarks:

TLO020-31 36V500mA CHM-6-30-90-36-BH40-F4-3 54.4D 3000K CRI90 NA

LED Avg.L Report

NAME: TLO020-31	TYPE:54.4D	WEIGHT:1
SPEC.:3000K CRI90	DIM.:	SERIAL No.:
MFR.:	SUR.:65	Shielding Angle:

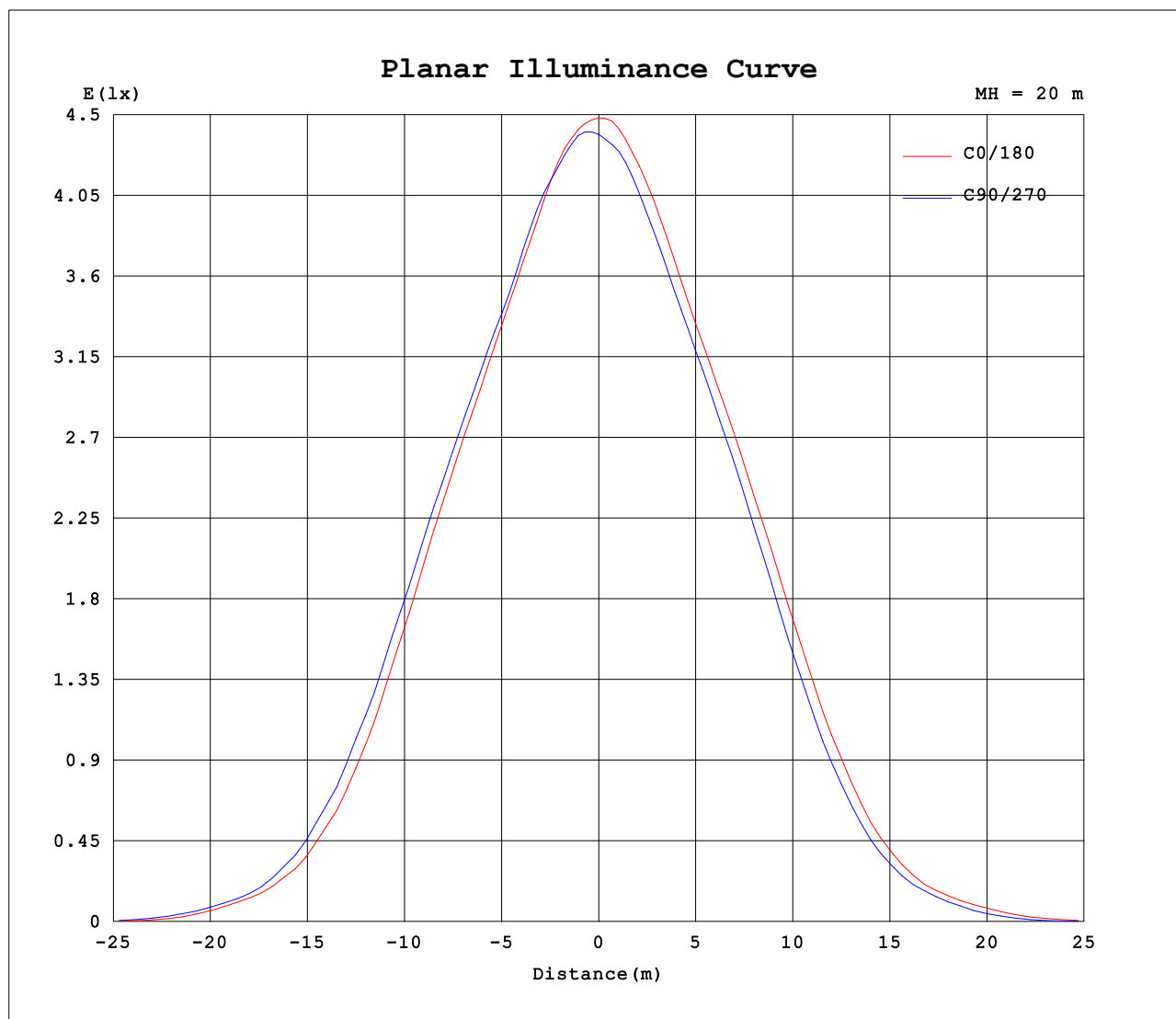
AvgL	cd/m2
L_0~180 (65) av	439
L_0~180 (75) av	304
L_0~180 (85) av	719
L_90~270 (65) av	488
L_90~270 (75) av	315
L_90~270 (85) av	749
L_45 (65) av	451
L_45 (75) av	306
L_45 (85) av	718

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:28DEG
Operators:CJY
Test Date:2024-08-30

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: 22.5DEG
Test Speed: HIGH
Temperature: 28DEG
Operators: CJY
Test Date: 2024-08-30

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:

TLO020-31 36V500mA CHM-6-30-90-36-BH40-F4-3 54.4D 3000K CRI90 NA

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: TLO020-31	TYPE: 54.4D	WEIGHT: 1
SPEC.: 3000K CRI90	DIM.:	SERIAL No.:
MFR.:	SUR.: 65	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	1766	1766	1766	1766	1766	1766	1766	1766	1766	1766	1766	1766	1766	1766	1766	1766			
5	1718	1718	1712	1724	1740	1770	1762	1754	1708	1705	1708	1699	1689	1674	1666	1677			
10	1565	1583	1568	1594	1628	1663	1666	1647	1573	1559	1565	1547	1533	1505	1501	1513			
15	1403	1414	1405	1440	1468	1509	1500	1484	1410	1403	1411	1392	1373	1335	1342	1343			
20	1229	1245	1241	1282	1307	1350	1336	1325	1245	1229	1243	1217	1192	1141	1145	1152			
25	992	1017	1003	1058	1093	1159	1145	1128	1016	995	1013	976	935	870	871	887			
30	679	709	695	752	793	872	869	849	711	694	713	670	623	561	554	569			
35	384	395	397	435	479	546	547	522	400	398	411	378	335	284	283	293			
40	175	179	173	194	221	265	271	253	184	184	191	172	155	126	125	131			
45	68.3	71.8	68.7	78.5	92.0	113	117	115	85.1	83.6	82.7	69.2	51.9	35.7	33.1	38.3			
50	9.02	9.63	8.99	12.6	19.6	32.6	35.3	34.1	17.4	16.0	15.5	11.1	6.58	3.55	3.22	3.81			
55	1.74	1.79	1.69	1.97	2.53	3.83	4.06	3.93	2.07	1.96	1.92	1.68	1.46	1.21	1.18	1.28			
60	0.95	0.97	0.95	1.03	1.17	1.35	1.25	1.19	0.92	0.94	0.96	0.97	0.88	0.79	0.73	0.78			
65	0.62	0.63	0.65	0.69	0.79	0.86	0.79	0.75	0.61	0.62	0.63	0.65	0.58	0.52	0.46	0.50			
70	0.39	0.38	0.41	0.44	0.51	0.57	0.54	0.51	0.38	0.38	0.37	0.38	0.33	0.31	0.26	0.30			
75	0.28	0.27	0.29	0.28	0.33	0.35	0.35	0.32	0.24	0.26	0.23	0.24	0.21	0.21	0.19	0.21			
80	0.24	0.23	0.25	0.24	0.26	0.25	0.27	0.24	0.19	0.20	0.18	0.20	0.19	0.19	0.18	0.19			
85	0.23	0.23	0.23	0.23	0.24	0.23	0.24	0.23	0.18	0.19	0.18	0.19	0.19	0.19	0.18	0.18			
90	0.23	0.24	0.23	0.24	0.24	0.23	0.23	0.23	0.18	0.18	0.18	0.19	0.20	0.19	0.20	0.18			
95	0.26	0.27	0.25	0.26	0.24	0.25	0.23	0.25	0.21	0.19	0.21	0.20	0.23	0.22	0.25	0.22			
100	0.35	0.37	0.37	0.35	0.32	0.31	0.28	0.31	0.29	0.27	0.29	0.28	0.33	0.35	0.37	0.34			
105	0.59	0.60	0.61	0.57	0.51	0.46	0.43	0.46	0.48	0.47	0.48	0.51	0.58	0.65	0.66	0.63			
110	1.07	1.05	1.10	1.00	0.91	0.80	0.77	0.79	0.87	0.89	0.88	0.96	1.06	1.21	1.21	1.16			
115	1.86	1.81	1.90	1.75	1.62	1.41	1.39	1.41	1.56	1.61	1.60	1.73	1.88	2.12	2.10	2.02			
120	2.97	2.91	3.03	2.82	2.66	2.36	2.35	2.36	2.59	2.67	2.64	2.83	3.04	3.34	3.35	3.22			
125	4.39	4.34	4.45	4.23	4.00	3.67	3.60	3.66	3.97	4.02	4.04	4.23	4.53	4.88	4.90	4.70			
130	6.09	6.01	6.14	5.89	5.62	5.24	5.16	5.23	5.62	5.68	5.71	5.94	6.27	6.67	6.69	6.44			
135	7.98	7.90	8.01	7.77	7.48	7.07	6.98	7.06	7.50	7.54	7.61	7.82	8.22	8.61	8.65	8.39			
140	9.94	9.88	9.97	9.79	9.49	9.07	8.97	9.05	9.52	9.56	9.61	9.85	10.2	10.6	10.6	10.3			
145	11.8	11.8	11.9	11.7	11.5	11.1	10.9	11.0	11.5	11.5	11.5	11.8	12.1	12.4	12.4	12.1			
150	13.5	13.4	13.5	13.4	13.2	12.9	12.8	12.8	13.1	13.2	13.2	13.5	13.7	14.0	13.8	13.6			
155	14.6	14.6	14.7	14.8	14.7	14.4	14.2	14.2	14.4	14.4	14.5	14.8	15.0	15.1	14.9	14.6			
160	15.5	15.5	15.6	15.7	15.7	15.5	15.3	15.2	15.3	15.3	15.4	15.7	15.9	15.9	15.6	15.4			
165	16.1	16.1	16.3	16.5	16.6	16.3	16.1	16.0	16.1	16.1	16.2	16.4	16.6	16.5	16.2	16.0			
170	16.8	16.8	16.9	17.1	17.2	17.0	16.8	16.8	16.8	16.9	16.9	17.0	17.1	17.1	16.9	16.7			
175	17.3	17.4	17.5	17.7	17.6	17.6	17.6	17.5	17.5	17.5	17.7	17.6	17.6	17.7	17.6	17.3			
180	17.8	17.8	18.0	18.0	18.0	18.0	18.0	17.8	17.8	17.8	18.0	18.0	18.1	18.0	18.1	17.7			

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