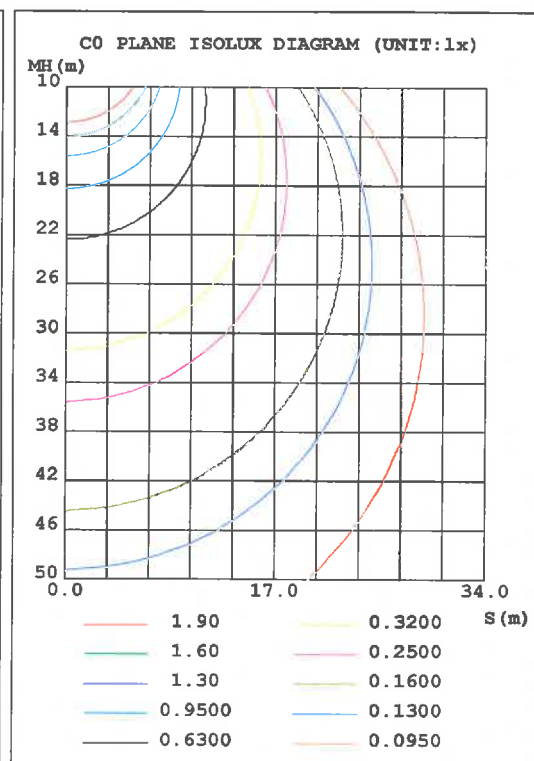
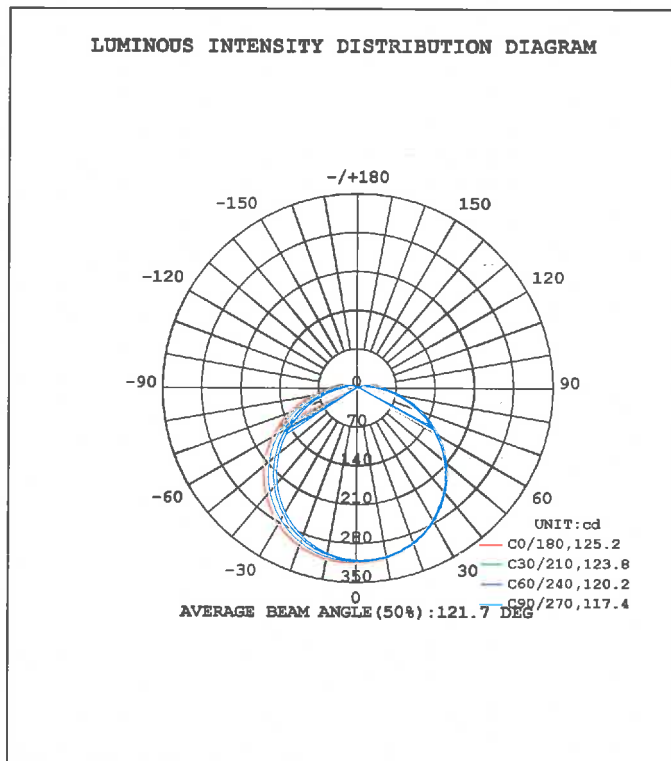


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.15V I:0.0686A P:12.368W PF:0.7838 Freq:49.99Hz Lamp Flux:1048.47x1 lm		
NAME: LED Ceiling light	TYPE:	WEIGHT:
SPEC.:230	DIM.: 230X105X61	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 84.77 lm/W
MODEL	YBHP1R-WH-WW	I _{max} (cd)	316.3	S/MH(C0/180)	1.34	
NOMINAL POWER(W)	12	LOR(%)	100.0	S/MH(C90/270)	1.24	
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	1048.5	η UP, DN(C0-180)	1.6, 49.5	
NOMINAL FLUX(lm)	1048.47	CIE CLASS	DIRECT	η UP, DN(C180-360)	1.8, 47.1	
LAMPS INSIDE	1	η up(%)	3.4	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	230	η down(%)	96.6	CIBSE SHR MAX	1.35	



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 02 September 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.366
 Humidity: 65.0%
 Test Distance: 8.791m [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	311.0	309.2	307.9	306.4	314.5	307.5	303.0	301.9	0- 10	29.52	29.52	2.82,2.82
20	298.0	296.9	294.5	295.5	304.0	294.3	285.8	285.7	10- 20	85.23	114.7	10.9,16.9
30	275.3	275.3	274.0	274.2	284.2	270.6	259.4	260.0	20- 30	130.8	245.5	23.4,29.4
40	244.6	245.0	241.2	243.5	255.0	239.0	225.7	226.5	30- 40	160.3	405.8	38.7,38.7
50	207.6	207.5	203.1	206.7	218.6	200.7	184.9	186.9	40- 50	170.8	576.6	55,55
60	164.2	164.5	159.2	163.5	175.9	157.2	139.1	142.2	50- 60	161.2	737.8	70.4,70.4
70	116.7	117.1	111.2	116.4	129.4	110.6	91.93	95.44	60- 70	133.1	870.9	83.1,83.1
80	71.68	69.88	63.01	68.59	82.21	65.62	47.86	52.02	70- 80	92.23	963.1	91.9,91.9
90	41.28	33.90	22.53	28.59	46.20	34.89	20.93	25.70	80- 90	50.13	1013	96.6,96.6
100	18.56	6.929	10.09	4.371	29.42	11.12	14.36	13.60	90-100	26.66	1040	89.2,99.2
110	0.8911	0.8145	0.7558	0.7421	0.8555	0.8055	0.7646	0.8077	100-110	3.154	1043	99.5,99.5
120	1.117	1.036	0.9776	0.9615	1.077	1.041	0.9999	1.048	110-120	0.9067	1044	99.6,99.6
130	1.321	1.249	1.199	1.179	1.290	1.256	1.235	1.256	120-130	1.018	1045	99.7,99.7
140	1.507	1.462	1.408	1.378	1.493	1.453	1.434	1.450	130-140	1.042	1046	99.8,99.8
150	1.683	1.640	1.593	1.575	1.674	1.643	1.629	1.640	140-150	0.9640	1047	99.9,99.9
160	1.846	1.808	1.787	1.749	1.846	1.803	1.787	1.801	150-160	0.7921	1048	99.9,99.9
170	1.914	1.928	1.896	1.876	1.937	1.916	1.878	1.896	160-170	0.5244	1048	100,100
180	1.968	1.959	1.937	1.925	1.996	1.959	1.928	1.930	170-180	0.1839	1048	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 491.2 lm

%lum = 46.8%
%lamp = 46.8%

Conical surface Flux(120deg): 737.8 lm

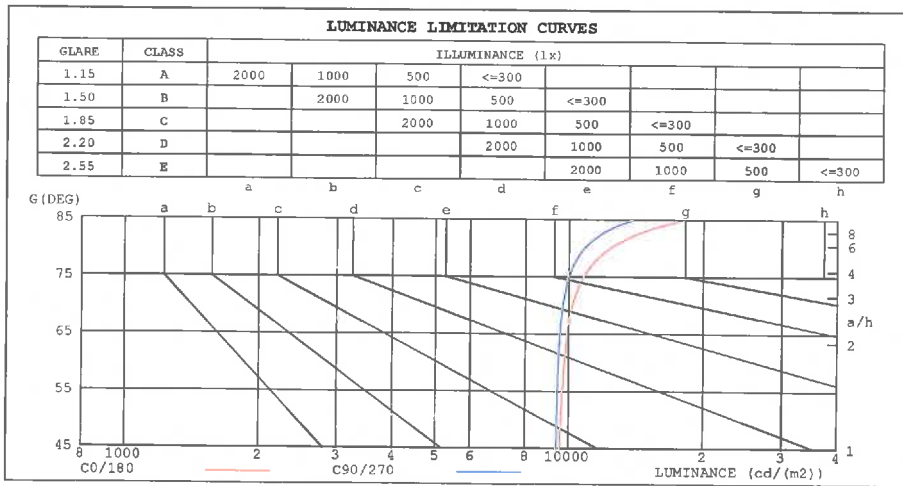
%lum = 70.4%
%lamp = 70.4%

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:02 September 2021

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.791m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.15V I:0.0686A P:12.368W PF:0.7838 Freq:49.99Hz Lamp Flux:1048.47x1 lm		
NAME: LED Ceiling light	TYPE:	WEIGHT:
SPEC.:230	DIM.: 230X105X61	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:02 September 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:8.791m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:230.15V I:0.0686A P:12.368W PF:0.7838 Freq:49.99Hz Lamp Flux:1048.47x1 lm		
NAME: LED Ceiling light	TYPE:	WEIGHT:
SPEC.:230	DIM.: 230X105X61	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	.352	.200	.063	.344	.196	.062	.328	.188	.060	.314	.181	.058	.301	.175	.056	
2.0	.317	.174	.053	.310	.171	.053	.296	.165	.051	.283	.159	.050	.272	.154	.048	
3.0	.287	.153	.046	.281	.150	.045	.268	.146	.044	.257	.141	.043	.247	.137	.042	
4.0	.262	.136	.040	.256	.134	.040	.245	.130	.039	.235	.126	.038	.225	.122	.037	
5.0	.240	.122	.035	.234	.120	.035	.225	.117	.034	.216	.114	.034	.207	.111	.033	
6.0	.221	.111	.032	.216	.109	.031	.207	.106	.031	.199	.104	.030	.192	.101	.030	
7.0	.204	.101	.029	.200	.100	.028	.192	.097	.028	.185	.095	.028	.178	.093	.027	
8.0	.190	.093	.026	.186	.092	.026	.179	.090	.026	.173	.088	.025	.166	.085	.025	
9.0	.178	.086	.024	.174	.085	.024	.168	.083	.024	.162	.081	.023	.156	.079	.023	
10.0	.167	.080	.022	.164	.079	.022	.158	.077	.022	.152	.076	.021	.147	.074	.021	

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	.216	.216	.216	.185	.185	.185	.126	.126	.126	.072	.072	.072	.023	.023	.023	
1.0	.209	.182	.157	.179	.156	.135	.122	.107	.093	.070	.062	.054	.023	.020	.018	
2.0	.202	.158	.121	.173	.136	.105	.118	.094	.073	.068	.055	.043	.022	.018	.014	
3.0	.194	.141	.098	.166	.121	.085	.114	.084	.060	.066	.049	.035	.021	.016	.012	
4.0	.186	.128	.083	.160	.110	.072	.110	.077	.051	.064	.045	.030	.020	.015	.010	
5.0	.178	.117	.072	.153	.101	.063	.106	.071	.044	.061	.042	.026	.020	.014	.009	
6.0	.171	.109	.065	.147	.094	.056	.101	.066	.040	.059	.039	.024	.019	.013	.008	
7.0	.164	.102	.059	.141	.089	.051	.097	.062	.036	.057	.037	.022	.018	.012	.007	
8.0	.157	.096	.055	.135	.084	.048	.094	.059	.034	.055	.035	.020	.018	.011	.007	
9.0	.151	.092	.051	.130	.079	.045	.090	.056	.032	.053	.033	.019	.017	.011	.006	
10.0	.145	.087	.049	.125	.076	.043	.087	.053	.030	.051	.032	.018	.016	.010	.006	

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:02 September 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:8.791m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.15V I:0.0686A P:12.368W PF:0.7838 Freq:49.99Hz Lamp Flux:1048.47x1 lm										
NAME: LED Ceiling light					TYPE:			WEIGHT:		
SPEC.:230					DIM.: 230X105X61			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	20.6	22.1	20.9	22.4	22.6	20.4	22.0	20.7	22.2	22.5
3H	22.5	23.9	22.8	24.2	24.5	22.3	23.7	22.6	24.0	24.3
4H	23.4	24.7	23.7	25.0	25.4	23.1	24.5	23.5	24.8	25.1
6H	24.2	25.5	24.6	25.9	26.2	23.9	25.2	24.3	25.5	25.9
8H	24.7	25.9	25.1	26.3	26.6	24.2	25.5	24.6	25.8	26.2
12H	25.1	26.3	25.6	26.7	27.1	24.6	25.8	25.0	26.1	26.5
4H 2H	21.3	22.6	21.6	22.9	23.3	21.2	22.5	21.5	22.8	23.2
3H	23.4	24.6	23.8	24.9	25.3	23.2	24.4	23.6	24.8	25.1
4H	24.4	25.5	24.9	25.9	26.3	24.2	25.3	24.6	25.7	26.1
6H	25.5	26.5	25.9	26.9	27.3	25.1	26.1	25.6	26.5	27.0
8H	26.0	26.9	26.5	27.4	27.8	25.6	26.5	26.0	26.9	27.4
12H	26.6	27.4	27.1	27.9	28.4	26.0	26.9	26.5	27.3	27.8
8H 4H	24.9	25.8	25.3	26.2	26.7	24.6	25.6	25.1	26.0	26.5
6H	26.1	26.9	26.6	27.4	27.9	25.8	26.6	26.3	27.1	27.6
8H	26.8	27.5	27.3	28.0	28.5	26.4	27.1	26.9	27.6	28.1
12H	27.6	28.2	28.1	28.7	29.3	27.0	27.6	27.5	28.1	28.7
12H 4H	24.9	25.8	25.4	26.2	26.7	24.7	25.6	25.2	26.0	26.5
6H	26.3	27.0	26.8	27.5	28.0	26.0	26.7	26.5	27.2	27.7
8H	27.1	27.7	27.6	28.2	28.7	26.7	27.3	27.2	27.8	28.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.4				

CIE Pub.117, 1048 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.2)

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:02 September 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:8.791m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.15V I:0.0686A P:12.368W PF:0.7838 Freq:49.99Hz Lamp Flux:1048.47x1 lm		
NAME: LED Ceiling light	TYPE:	WEIGHT:
SPEC.:230	DIM.: 230X105X61	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

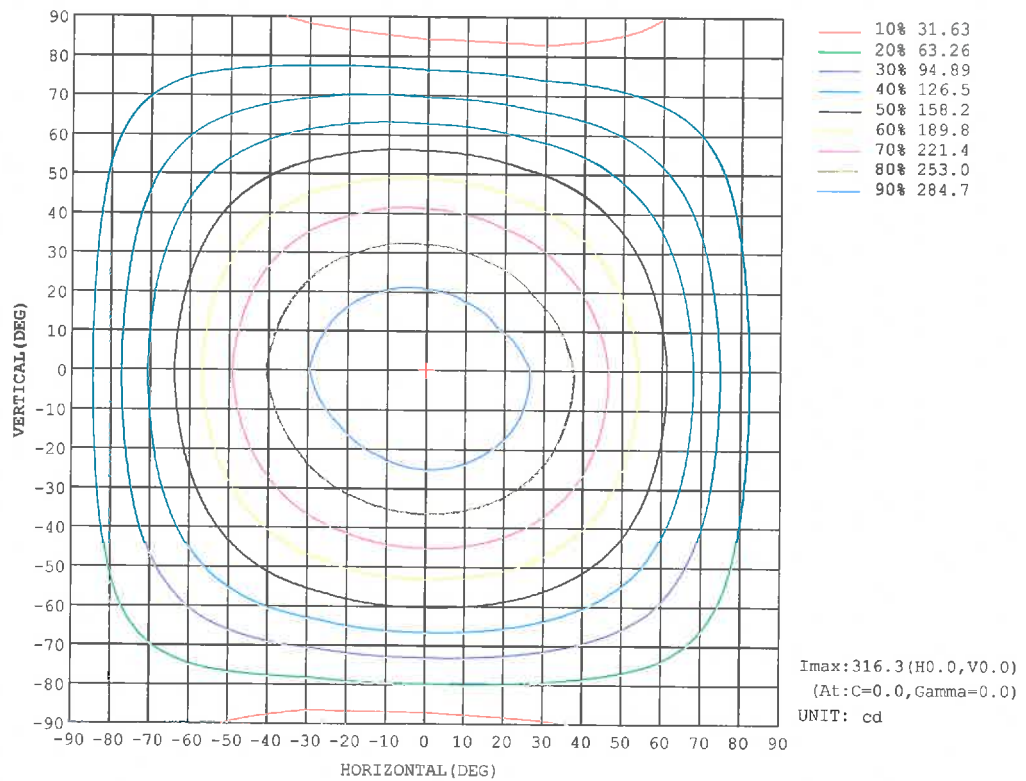
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	54	42	35	53	42	35	52	41	34	28
0.80	64	51	44	63	51	44	61	50	43	36
1.00	72	60	52	71	59	52	68	61	51	44
1.25	79	67	60	77	67	59	74	65	58	50
1.50	84	73	65	82	72	65	79	70	64	55
2.00	91	81	74	89	80	73	85	78	72	63
2.50	95	86	79	93	85	78	89	82	76	67
3.00	99	91	84	96	89	83	92	86	81	71
4.00	105	95	91	100	94	89	95	91	86	76
5.00	106	100	95	103	98	93	98	94	90	80
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004	Suspended						SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Y...
 Test Date: 02 September 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.366
 Humidity: 65.0%
 Test Distance: 8.791m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:230.15V I:0.0686A P:12.368W PF:0.7838 Freq:49.99Hz Lamp Flux:1048.47x1 lm		
NAME: LED Ceiling light	TYPE:	WEIGHT:
SPEC.:230	DIM.: 230X105X61	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



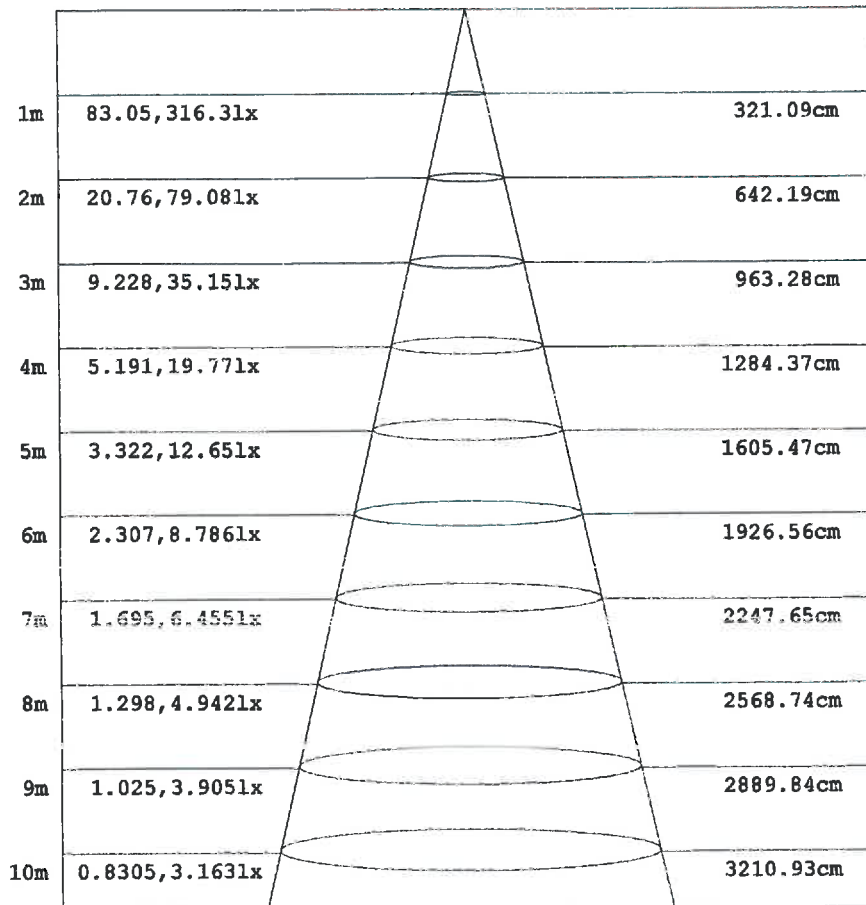
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:XXXX
 Test Date:02 September 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:8.791m [K=1.0000]
 Remarks:

AAI Figure

Test:U:230.15V I:0.0686A P:12.368W PF:0.7838 Freq:49.99Hz Lamp Flux:1048.47x1 lm		
NAME: LED Ceiling light	TYPE:	WEIGHT:
SPEC.:230	DIM.: 230X105X61	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Flux out:722.7 lm



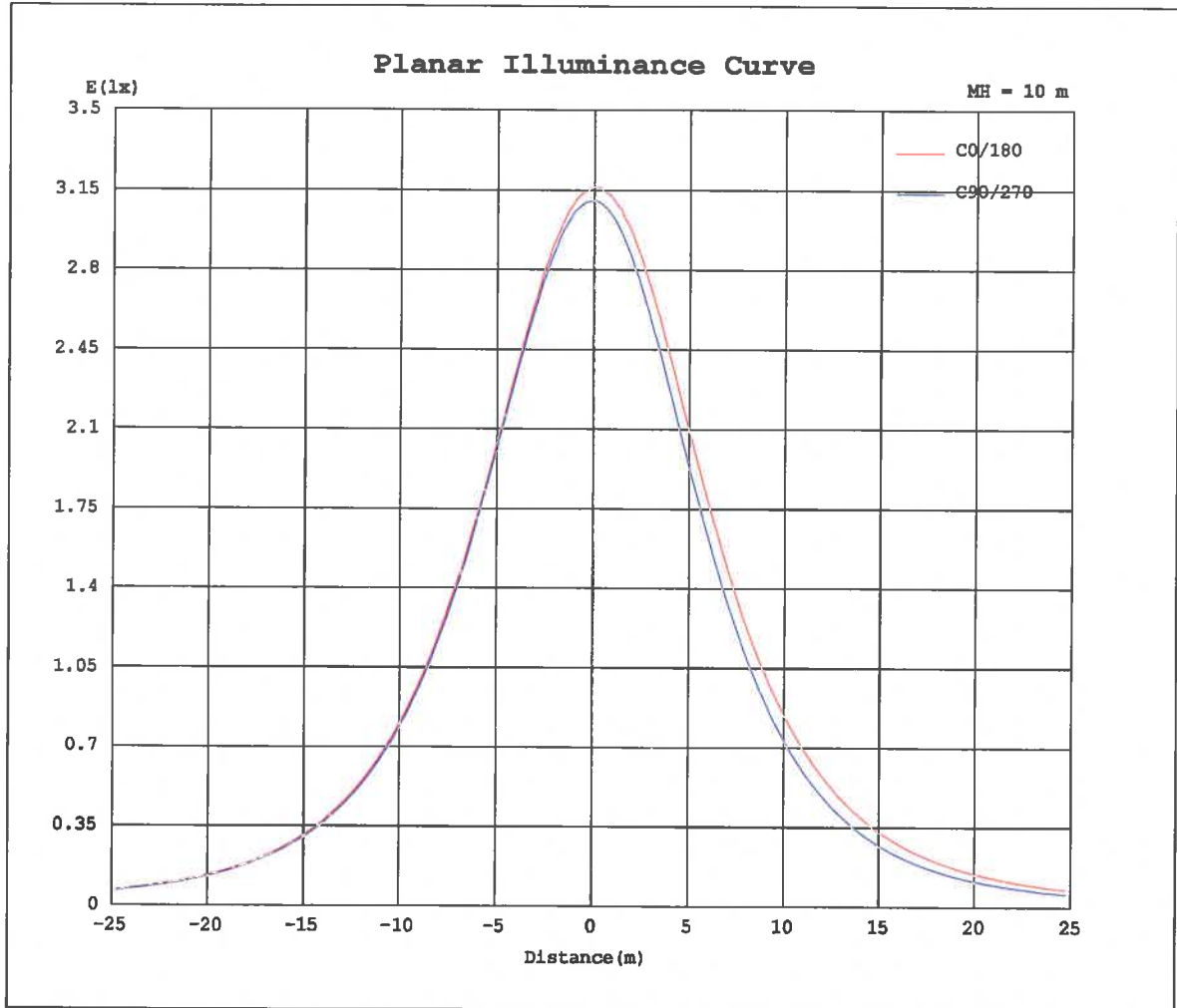
Height Eavg, Emax Angle:116.16deg Diameter

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

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:)
 Test Date:02 September 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:8.791m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: [redacted]
 Test Date: 02 September 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.366
 Humidity: 65.0%
 Test Distance: 8.791m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.15V I:0.0686A P:12.368W PF:0.7838 Freq:49.99Hz Lamp Flux:1048.47x1 lm		
NAME: LED Ceiling light	TYPE:	WEIGHT:
SPEC.:230	DIM.: 230X105X61	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) y (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	316	313	311	310	309	308	316	313	311	310	309	308						
5	315	313	311	310	309	308	316	312	310	308	306	306						
10	311	310	308	308	306	306	315	310	305	303	302	302						
15	306	305	304	303	302	303	310	305	300	295	295	295						
20	298	298	296	295	295	296	304	298	291	286	285	287						
25	287	288	287	286	284	287	295	288	280	274	272	275						
30	275	276	274	274	272	276	284	276	266	259	257	263						
35	261	262	261	258	258	261	271	261	250	243	241	247						
40	245	246	244	241	241	246	255	245	233	226	223	230						
45	227	228	226	223	223	229	238	227	215	206	204	211						
50	208	209	206	203	203	210	219	208	194	185	182	191						
55	186	188	185	182	182	190	198	187	173	163	160	170						
60	164	166	163	159	159	168	176	164	150	139	137	147						
65	141	143	139	135	135	145	153	141	127	115	113	124						
70	117	119	115	111	111	122	129	118	103	91.9	89.8	101						
75	93.5	95.3	91.0	86.7	86.7	97.7	105	94.7	80.2	68.9	67.0	78.6						
80	71.7	72.2	67.5	63.0	63.0	74.2	82.2	72.4	58.8	47.9	46.2	57.8						
85	53.3	52.3	46.0	40.7	40.5	52.3	61.2	53.1	40.1	29.6	28.1	40.8						
90	41.3	38.1	29.7	22.5	21.8	35.3	46.2	40.4	29.4	20.9	20.0	31.4						
95	35.5	30.8	21.9	15.0	14.4	26.3	37.9	34.4	25.5	18.1	17.2	27.7						
100	18.6	4.35	9.51	10.1	7.47	1.28	29.4	8.10	14.1	14.4	12.4	14.8						
105	0.76	0.75	0.69	1.87	0.62	0.68	0.73	0.68	2.06	5.76	0.70	0.72						
110	0.89	0.87	0.76	0.76	0.69	0.79	0.86	0.80	0.81	0.76	0.81	0.81						
115	1.00	0.98	0.86	0.87	0.82	0.89	0.97	0.91	0.93	0.89	0.92	0.92						
120	1.12	1.10	0.98	0.98	0.92	1.00	1.08	1.04	1.05	1.00	1.05	1.05						
125	1.21	1.20	1.09	1.10	1.05	1.11	1.19	1.13	1.16	1.13	1.16	1.13						
130	1.32	1.30	1.19	1.20	1.14	1.21	1.29	1.24	1.27	1.24	1.27	1.24						
135	1.42	1.41	1.30	1.30	1.26	1.32	1.39	1.34	1.38	1.33	1.37	1.34						
140	1.51	1.51	1.41	1.41	1.35	1.41	1.49	1.43	1.47	1.43	1.47	1.43						
145	1.59	1.60	1.50	1.51	1.44	1.51	1.58	1.54	1.57	1.52	1.56	1.52						
150	1.68	1.69	1.59	1.59	1.55	1.60	1.67	1.62	1.66	1.63	1.65	1.63						
155	1.77	1.76	1.69	1.69	1.63	1.69	1.76	1.71	1.75	1.71	1.74	1.70						
160	1.85	1.84	1.77	1.79	1.72	1.78	1.85	1.79	1.82	1.79	1.82	1.78						
165	1.88	1.90	1.84	1.84	1.79	1.85	1.90	1.85	1.88	1.85	1.88	1.81						
170	1.91	1.95	1.91	1.90	1.85	1.90	1.94	1.91	1.92	1.88	1.93	1.86						
175	1.94	1.98	1.92	1.93	1.91	1.93	1.97	1.93	1.96	1.91	1.93	1.92						
180	1.97	1.98	1.94	1.94	1.92	1.93	2.00	1.95	1.97	1.93	1.93	1.93						

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators: :
 Test Date:02 September 2021

y Range: 0 - 180DEG
 y Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_v1 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:8.791m [K=1.0000]
 Remarks: