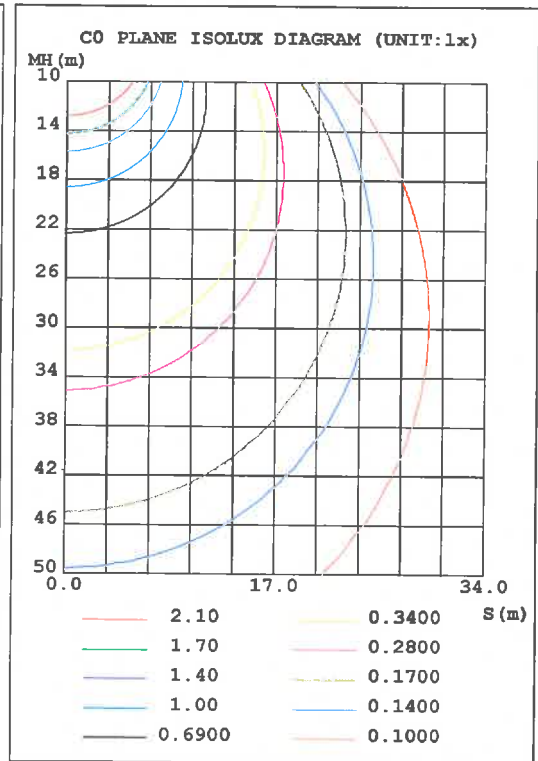
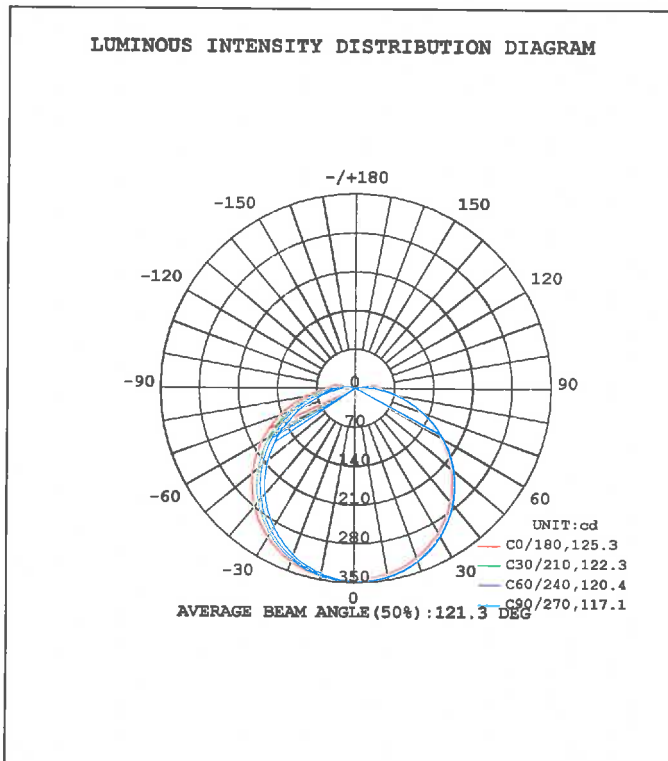


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.16V I:0.0667A P:11.863W PF:0.7724 Freq:49.99Hz Lamp Flux:1145.6x1 lm		
NAME: LED Ceiling light	TYPE:	WEIGHT:
SPEC.:230	DIM.: 230X105X61	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	YBHPIR-WH-NW	Imax (cd)	347.5	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)	1145.6	η UP, DN (C0-180)	1.4, 49.6
NOMINAL FLUX (lm)	1145.6	CIE CLASS	DIRECT	η UP, DN (C180-360)	1.8, 47.3
LAMPS INSIDE	1	η up (%)	3.1	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	230	η down (%)	96.9	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: U...
 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	● zone	● total	%lum, lamp
10	339.2	343.0	344.6	343.6	343.1	342.4	337.1	339.1	0- 10	32.83	32.83	2.87, 2.87
20	324.4	329.9	330.7	329.1	332.8	326.0	318.2	319.6	10- 20	94.66	127.5	11.1, 11.1
30	299.5	305.7	306.8	303.6	311.5	300.3	288.0	289.3	20- 30	145.0	272.5	23.8, 23.8
40	265.5	271.4	272.3	267.9	280.9	264.4	249.5	250.4	30- 40	177.5	450.0	39.3, 39.3
50	224.5	229.6	229.0	224.6	241.0	221.9	203.7	204.1	40- 50	188.2	638.2	55.7, 55.7
60	176.8	181.0	180.1	175.3	194.6	173.3	152.6	152.4	50- 60	176.6	814.8	71.1, 71.1
70	124.8	127.6	126.9	121.4	143.8	121.3	99.67	98.57	60- 70	144.6	959.4	83.7, 83.7
80	75.71	74.81	72.30	67.27	92.24	71.49	51.27	49.51	70- 80	98.56	1058	92.3, 92.3
90	43.15	34.94	25.37	20.53	52.61	37.22	24.59	21.91	80- 90	51.63	1110	95.9, 95.9
100	21.55	12.85	8.601	2.815	36.27	8.812	16.33	14.39	90-100	25.77	1135	99.1, 99.1
110	0.9998	0.8710	0.8147	0.8008	0.9143	0.9187	0.9047	2.225	100-110	4.249	1140	99.5, 99.5
120	1.244	1.118	1.059	1.059	1.159	1.165	1.136	1.095	110-120	1.018	1141	99.6, 99.6
130	1.484	1.366	1.312	1.306	1.394	1.416	1.402	1.353	120-130	1.117	1142	99.7, 99.7
140	1.683	1.590	1.539	1.547	1.602	1.631	1.624	1.581	130-140	1.148	1143	99.8, 99.8
150	1.860	1.794	1.765	1.765	1.810	1.833	1.828	1.794	140-150	1.065	1144	99.9, 99.9
160	2.063	1.995	1.978	1.966	1.996	2.009	2.022	1.984	150-160	0.8780	1145	99.9, 99.9
170	2.131	2.122	2.109	2.102	2.113	2.138	2.127	2.109	160-170	0.5833	1145	100, 100
180	2.154	2.165	2.158	2.154	2.154	2.161	2.148	2.149	170-180	0.2043	1146	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 544.15 lm

%lum = 47.5%
%lamp = 47.5%

Conical surface Flux(120deg): 814.78 lm

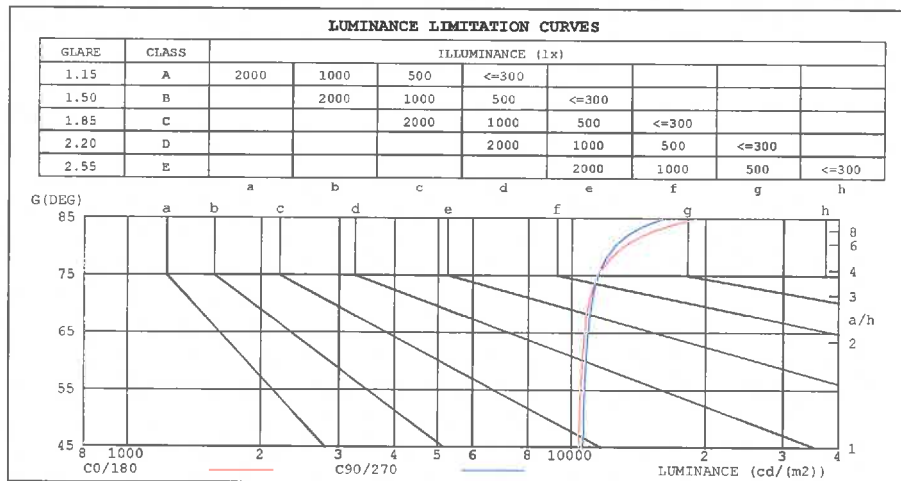
%lum = 71.1%
%lamp = 71.1%

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:230.16V I:0.0667A P:11.863W PF:0.7724 Freq:49.99Hz Lamp Flux:1145.6x1 lm		
NAME: LED Ceiling light	TYPE:	WEIGHT:
SPEC.:230	DIM.: 230X105X61	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	19038	16037
80	12975	12391
75	11448	11417
70	10861	11039
65	10653	10830
60	10525	10719
55	10438	10653
50	10394	10604
45	10360	10554

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:230.16V I:0.0667A P:11.863W PF:0.7724 Freq:49.99Hz Lamp Flux:1145.6x1 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
pf	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.348	.198	.063	.340	.194	.062	.324	.186	.059	.310	.179	.057	.297	.172	.056	
2.0	.314	.172	.053	.307	.169	.052	.294	.163	.051	.281	.158	.049	.270	.152	.048	
3.0	.285	.152	.045	.279	.149	.045	.267	.145	.044	.256	.140	.043	.245	.136	.042	
4.0	.260	.135	.040	.255	.133	.039	.244	.129	.039	.234	.126	.038	.224	.122	.037	
5.0	.239	.122	.035	.233	.120	.035	.224	.117	.034	.215	.113	.034	.207	.110	.033	
6.0	.220	.110	.032	.215	.109	.031	.207	.106	.031	.199	.103	.030	.191	.101	.030	
7.0	.204	.101	.029	.200	.099	.028	.192	.097	.028	.185	.095	.028	.178	.092	.027	
8.0	.190	.093	.026	.186	.092	.026	.179	.089	.026	.172	.087	.025	.166	.085	.025	
9.0	.177	.086	.024	.174	.085	.024	.168	.083	.023	.162	.081	.023	.156	.079	.023	
10.0	.166	.080	.022	.163	.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
pf	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.214	.214	.214	.183	.183	.183	.125	.125	.125	.072	.072	.072	.023	.023	.023	
1.0	.207	.180	.156	.177	.154	.134	.121	.106	.093	.070	.061	.054	.022	.020	.017	
2.0	.200	.156	.120	.171	.134	.103	.117	.093	.072	.068	.054	.042	.022	.017	.014	
3.0	.192	.139	.097	.165	.120	.084	.113	.083	.059	.065	.049	.035	.021	.016	.011	
4.0	.184	.126	.081	.158	.109	.071	.109	.076	.050	.063	.044	.029	.020	.014	.010	
5.0	.176	.116	.071	.152	.100	.061	.104	.070	.043	.060	.041	.026	.019	.013	.008	
6.0	.169	.107	.063	.145	.093	.055	.100	.065	.039	.058	.038	.023	.019	.013	.008	
7.0	.162	.100	.057	.139	.087	.050	.096	.061	.035	.056	.036	.021	.018	.012	.007	
8.0	.155	.095	.053	.134	.082	.046	.093	.058	.033	.054	.034	.020	.017	.011	.006	
9.0	.149	.090	.050	.129	.078	.043	.089	.055	.031	.052	.032	.018	.017	.011	.006	
10.0	.143	.086	.047	.124	.074	.041	.086	.052	.029	.050	.031	.017	.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:230.16V I:0.0667A P:11.863W PF:0.7724 Freq:49.99Hz Lamp Flux:1145.6x1 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	20.5	22.0	20.8	22.3	22.6	20.6	22.1	20.9	22.4	22.7
3H	22.4	23.8	22.7	24.1	24.4	22.5	23.9	22.8	24.2	24.5
4H	23.3	24.6	23.6	24.9	25.3	23.3	24.7	23.7	25.0	25.3
6H	24.1	25.4	24.5	25.7	26.1	24.1	25.4	24.5	25.7	26.1
8H	24.5	25.8	24.9	26.1	26.5	24.5	25.7	24.9	26.1	26.4
12H	25.0	26.2	25.4	26.5	26.9	24.8	26.0	25.2	26.4	26.8
4H 2H	21.2	22.6	21.6	22.9	23.2	21.3	22.7	21.7	23.0	23.3
3H	23.3	24.5	23.7	24.8	25.2	23.4	24.6	23.8	24.9	25.3
4H	24.3	25.4	24.8	25.8	26.2	24.4	25.5	24.8	25.9	26.3
6H	25.3	26.3	25.8	26.7	27.2	25.3	26.3	25.8	26.7	27.2
8H	25.8	26.8	26.3	27.2	27.6	25.8	26.7	26.3	27.1	27.6
12H	26.4	27.2	26.9	27.7	28.2	26.2	27.1	26.7	27.5	28.0
8H 4H	24.7	25.7	25.2	26.1	26.5	24.8	25.7	25.3	26.1	26.6
6H	26.0	26.7	26.5	27.2	27.7	26.0	26.8	26.5	27.2	27.7
8H	26.6	27.3	27.2	27.8	28.3	26.6	27.3	27.1	27.8	28.3
12H	27.4	28.0	27.9	28.5	29.0	27.2	27.8	27.7	28.3	28.8
12H 4H	24.8	25.6	25.3	26.1	26.6	24.9	25.7	25.3	26.1	26.6
6H	26.1	26.8	26.6	27.3	27.8	26.1	26.8	26.6	27.3	27.8
8H	26.9	27.5	27.4	28.0	28.5	26.8	27.4	27.3	27.9	28.5
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 / - 0.3				

CIE Pub.117, 1146 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 0.5$)

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:1
 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:230.16V I:0.0667A P:11.863W PF:0.7724 Freq:49.99Hz Lamp Flux:1145.6x1 lm		
NAME: LED Ceiling light	TYPE:	WEIGHT:
SPEC.:230	DIM.: 230X105X61	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

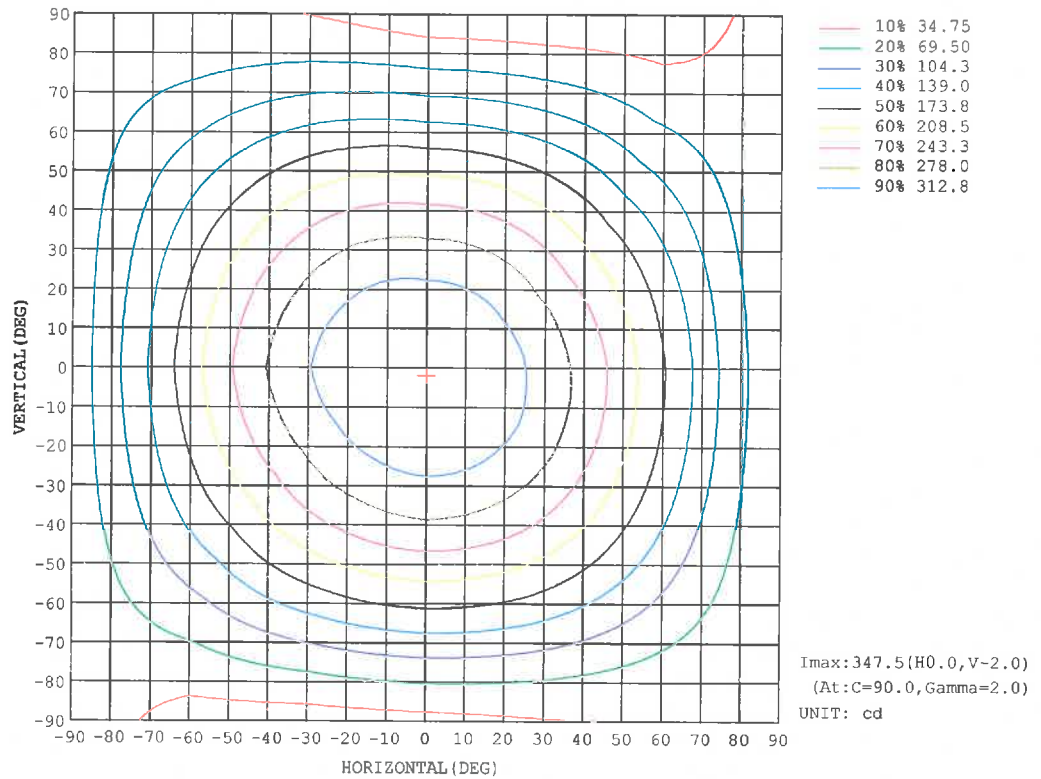
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	54	42	35	54	42	35	52	42	35	28
0.80	64	52	44	63	51	44	61	51	44	36
1.00	72	60	53	71	60	52	69	61	52	44
1.25	79	68	60	78	67	60	75	66	59	51
1.50	84	74	66	83	73	65	79	71	64	56
2.00	91	82	75	89	81	74	85	78	72	64
2.50	96	87	80	93	85	79	89	82	77	68
3.00	99	91	85	97	89	84	92	86	81	72
4.00	103	97	91	101	95	90	96	91	87	77
5.00	106	100	96	103	98	94	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:
 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:230.16V I:0.0667A P:11.863W PF:0.7724 Freq:49.99Hz Lamp Flux:1145.6x1 lm		
NAME: LED Ceiling light	TYPE:	WEIGHT:
SPEC.:230	DIM.: 230X105X61	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



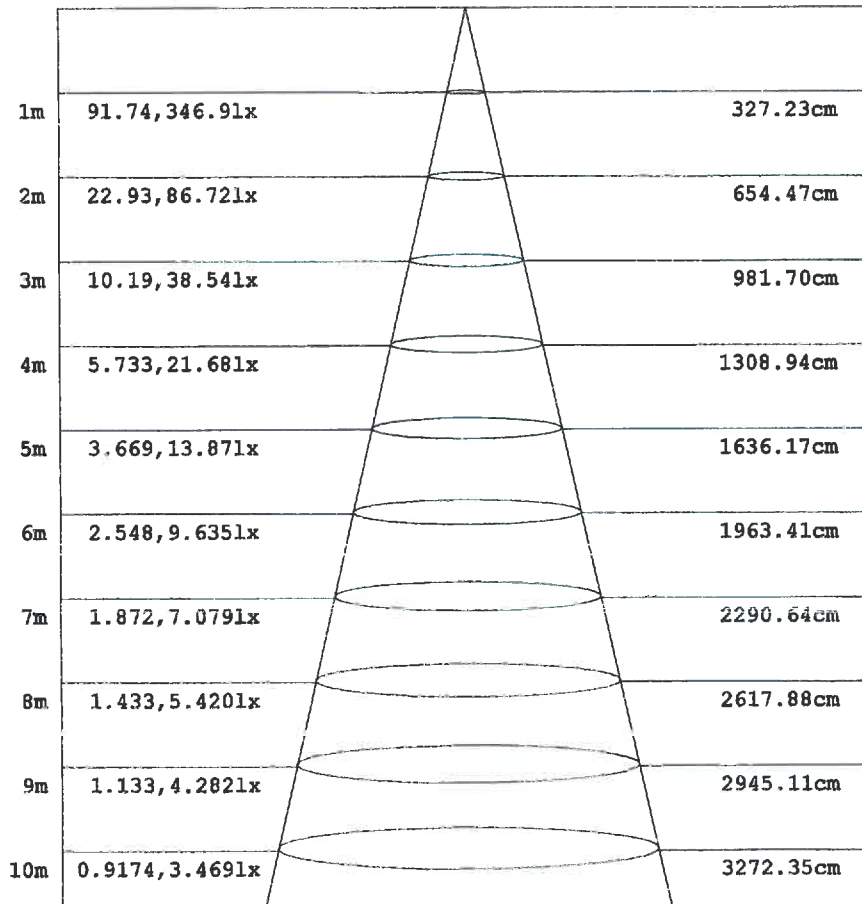
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: [Redacted]
 Test Date: 02 September 2021

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:

AAI Figure

Test:U:230.16V I:0.0667A P:11.863W PF:0.7724 Freq:49.99Hz Lamp Flux:1145.6x1 lm		
NAME: LED Ceiling light	TYPE:	WEIGHT:
SPEC.:230	DIM.: 230X105X61	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Flux out:798.3 lm



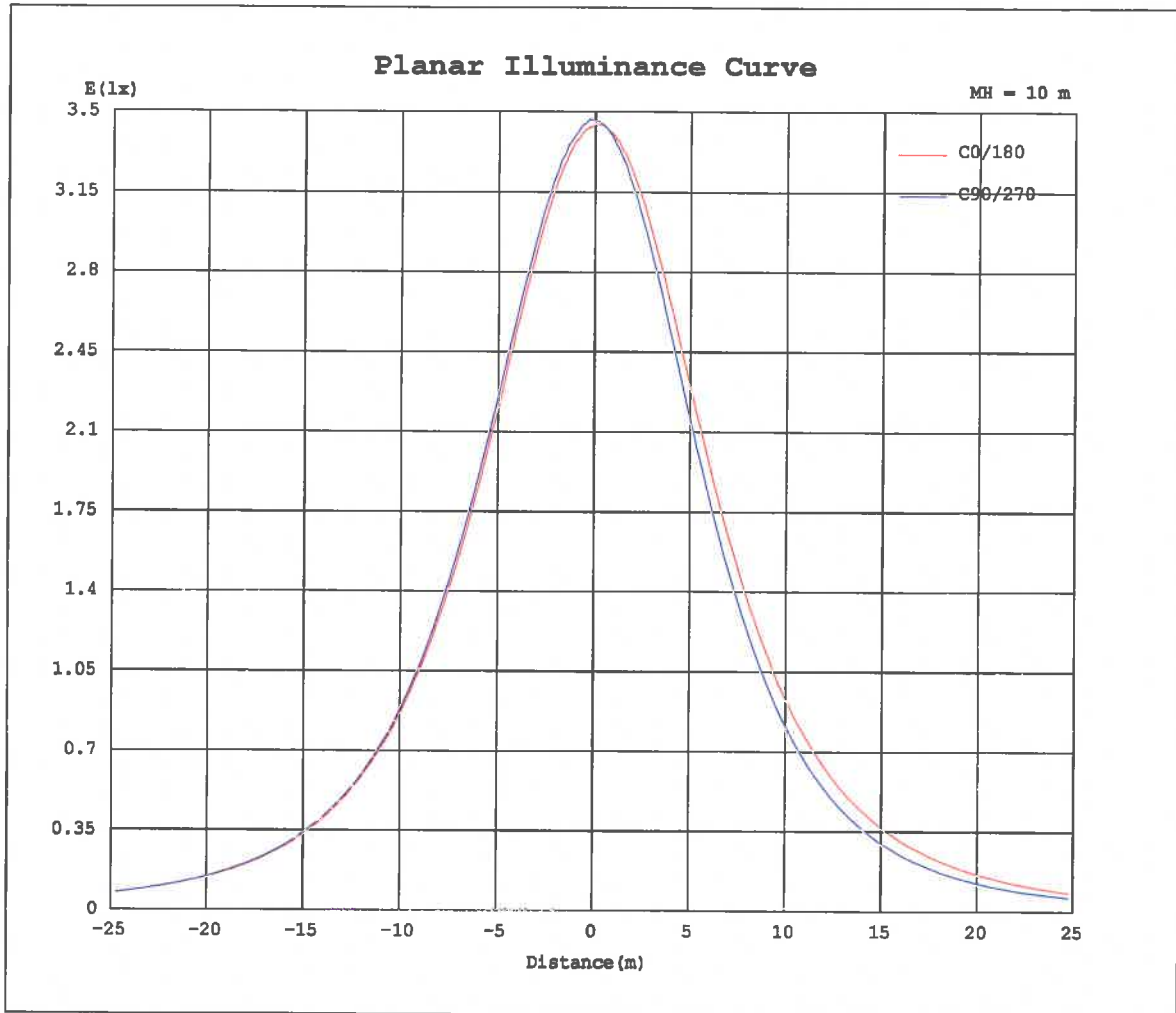
Height Eavg, Emax Angle:117.13deg Diameter

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: [Name]
 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: -
 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:230.16V I:0.0667A P:11.863W PF:0.7724 Freq:49.99Hz Lamp Flux:1145.6x1 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	345	347	347	346	347	347	345	347	347	346	347	347						
5	342	346	346	346	346	346	345	346	345	343	344	344						
10	339	343	344	345	344	343	343	344	341	337	339	340						
15	333	337	338	339	337	338	339	337	333	329	330	330						
20	324	329	330	331	329	329	333	328	324	318	319	320						
25	313	317	319	320	317	318	323	317	312	304	306	306						
30	299	305	306	307	303	304	312	303	297	288	289	290						
35	283	289	290	291	287	287	297	288	280	270	271	272						
40	266	271	272	272	268	268	281	269	260	249	250	251						
45	246	250	252	251	247	247	262	249	240	227	227	229						
50	224	229	230	229	224	225	241	227	217	204	203	205						
55	201	205	207	205	200	201	219	203	193	179	178	180						
60	177	180	182	180	175	176	195	179	168	153	152	153						
65	151	154	156	154	148	149	170	153	142	126	125	126						
70	125	127	128	127	120	122	144	127	116	99.7	98.3	98.9						
75	99.6	100	101	99.3	92.7	95.4	118	101	90.7	74.2	72.7	73.1						
80	75.7	74.9	74.7	72.3	65.8	68.7	92.2	76.2	66.8	51.3	49.2	49.8						
85	55.8	52.7	50.7	47.0	40.6	43.5	69.5	54.5	46.6	32.3	29.2	30.1						
90	43.2	37.1	32.7	25.4	19.1	21.9	52.6	40.0	34.4	24.6	21.2	22.6						
95	37.1	29.0	22.8	13.9	9.55	11.4	43.1	32.7	29.1	21.0	18.0	19.3						
100	21.5	16.6	9.05	8.60	5.04	0.59	36.3	1.71	15.9	16.3	12.8	16.0						
105	0.90	0.79	0.77	2.42	0.89	0.71	0.78	0.76	1.66	8.30	0.74	11.9						
110	1.00	0.92	0.82	0.81	0.77	0.83	0.91	0.91	0.93	0.90	0.87	3.58						
115	1.12	1.04	0.95	0.94	0.91	0.96	1.03	1.02	1.05	1.00	1.00	0.95						
120	1.24	1.17	1.07	1.06	1.03	1.09	1.16	1.14	1.19	1.14	1.12	1.07						
125	1.36	1.29	1.20	1.19	1.15	1.21	1.28	1.27	1.31	1.27	1.25	1.19						
130	1.48	1.41	1.33	1.31	1.27	1.34	1.39	1.39	1.44	1.40	1.38	1.33						
135	1.57	1.53	1.43	1.44	1.41	1.46	1.50	1.50	1.55	1.51	1.50	1.44						
140	1.68	1.63	1.55	1.54	1.52	1.57	1.60	1.61	1.65	1.62	1.61	1.55						
145	1.76	1.73	1.65	1.65	1.62	1.69	1.71	1.71	1.76	1.72	1.72	1.65						
150	1.86	1.83	1.76	1.76	1.73	1.80	1.81	1.81	1.86	1.83	1.83	1.76						
155	1.94	1.93	1.86	1.87	1.86	1.91	1.90	1.90	1.96	1.92	1.93	1.86						
160	2.06	2.01	1.98	1.98	1.93	2.00	2.00	1.99	2.03	2.02	2.02	1.95						
165	2.08	2.08	2.06	2.05	2.01	2.09	2.06	2.08	2.10	2.08	2.09	2.05						
170	2.13	2.14	2.10	2.11	2.07	2.14	2.11	2.13	2.14	2.13	2.14	2.08						
175	2.14	2.17	2.14	2.15	2.14	2.16	2.15	2.15	2.18	2.14	2.15	2.13						
180	2.15	2.17	2.16	2.16	2.15	2.16	2.15	2.18	2.19	2.15	2.15	2.15						

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operator:V
 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: