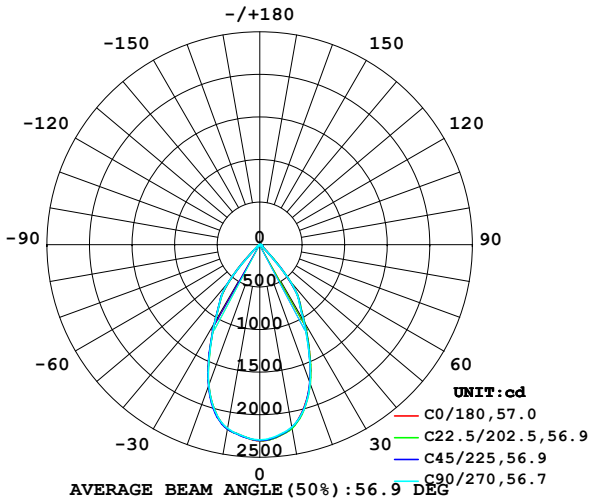
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:229.23V I:0.1196A P:26.419W PF:0.9639 Freq:49.99Hz Lamp Flux:2113.75x1 lm		
NAME: HCP-81222128-28W 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	SUR.:	Shielding Angle:

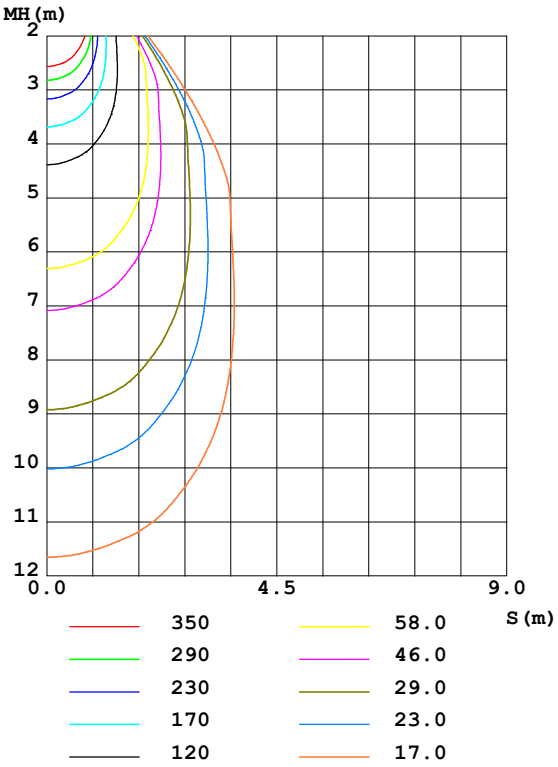
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 80.01 lm/W	
MODEL	HCP-81222128-28W 5000K	Imax(cd)	2308	S/MH(C0/180)	0.88
NOMINAL POWER(W)	28	LOR(%)	100.0	S/MH(C90/270)	0.88
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	2113.7	η UP,DN(C0-180)	0.0,49.7
NOMINAL FLUX(lm)	2113.75	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.3
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	0.95

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):56.9 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-03-01

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-81222128-28W 5000K

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	2186	2176	2176	2169	2200	2201	2191	2169	0- 10	213.3	213.3	10.1,10.1
20	1728	1723	1726	1730	1756	1767	1757	1730	10- 20	558.4	771.7	36.5,36.5
30	1046	1038	1030	1053	1073	1070	1062	1062	20- 30	634.2	1406	66.5,66.5
40	531.2	520.7	532.6	541.6	550.3	563.7	556.4	542.0	30- 40	503.4	1909	90.3,90.3
50	47.99	46.37	43.97	41.63	42.98	46.11	53.17	52.35	40- 50	161.4	2071	98,98
60	19.77	20.07	18.76	18.98	19.63	19.85	20.63	20.02	50- 60	26.81	2097	99.2,99.2
70	7.202	7.229	6.260	6.759	7.116	7.007	6.800	7.155	60- 70	12.62	2110	99.8,99.8
80	1.096	0.8920	0.7310	0.8093	0.8714	0.7065	0.6935	0.8798	70- 80	3.303	2113	100,100
90	0.0999	0.0912	0.0912	0.0912	0.1042	0.1042	0.1042	0.1042	80- 90	0.3505	2114	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-03-01

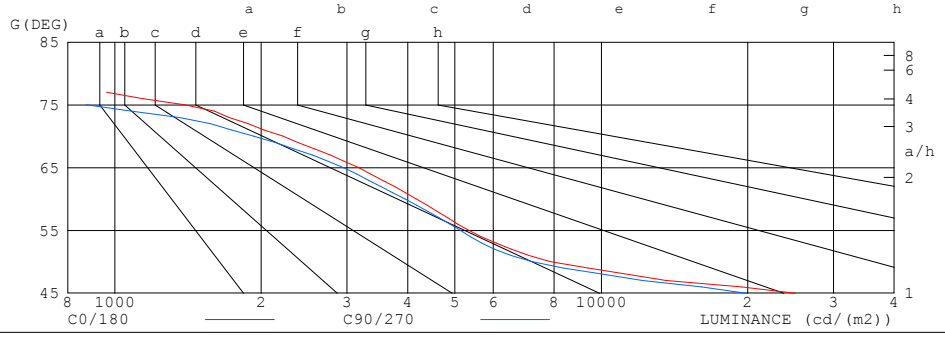
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-81222128-28W 5000K

LUMINANCE LIMITATION CURVES

Test:U:229.23V I:0.1196A P:26.419W PF:0.9639 Freq:49.99Hz Lamp Flux:2113.75x1 lm		
NAME: HCP-81222128-28W 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	SUR.:	Shielding Angle:

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	443	237
80	664	443
75	1390	872
70	2216	1927
65	3168	2947
60	4161	3949
55	5338	5132
50	7858	7201
45	25059	19877

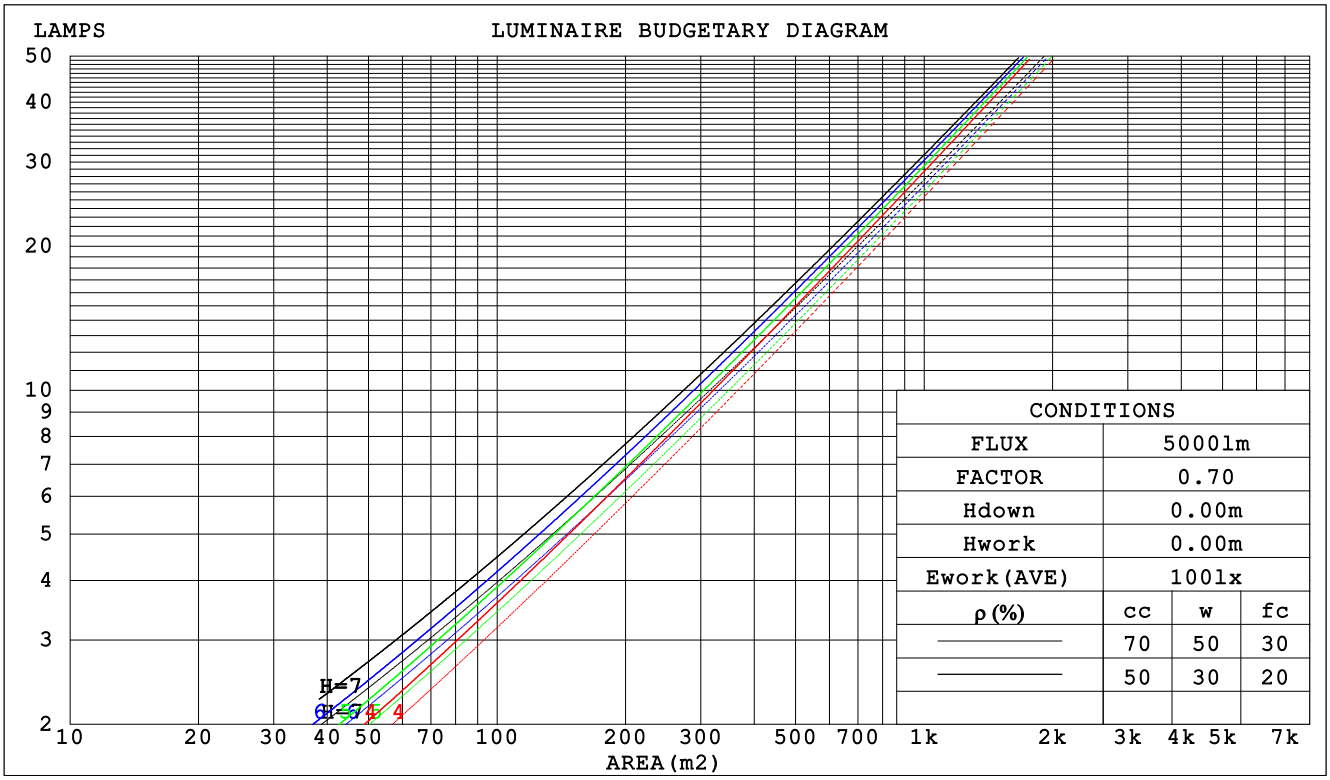
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-03-01

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-81222128-28W 5000K

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:229.23V I:0.1196A P:26.419W PF:0.9639 Freq:49.99Hz Lamp Flux:2113.75x1 lm		
NAME: HCP-81222128-28W 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.11	1.08	1.06	1.08	1.06	1.04	1.04	1.02	1.01	1.01	.99	.98	.97	.96	.95	.93
2.0	1.03	.98	.95	1.01	.97	.94	.98	.95	.92	.95	.92	.90	.92	.90	.88	.86
3.0	.95	.90	.86	.94	.89	.85	.91	.87	.84	.89	.86	.83	.87	.84	.82	.80
4.0	.89	.83	.79	.88	.82	.78	.86	.81	.77	.84	.80	.77	.82	.78	.76	.74
5.0	.83	.77	.73	.82	.76	.72	.80	.75	.72	.79	.74	.71	.77	.73	.70	.69
6.0	.78	.72	.67	.77	.71	.67	.75	.70	.66	.74	.69	.66	.73	.69	.65	.64
7.0	.73	.67	.62	.72	.66	.62	.71	.66	.62	.70	.65	.61	.68	.64	.61	.60
8.0	.68	.62	.58	.68	.62	.58	.67	.61	.58	.66	.61	.57	.65	.60	.57	.56
9.0	.64	.58	.54	.64	.58	.54	.63	.58	.54	.62	.57	.54	.61	.57	.54	.52
10.0	.61	.55	.51	.60	.55	.51	.60	.54	.51	.59	.54	.51	.58	.54	.50	.49



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-03-01

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-81222128-28W 5000K

WEC AND CCEC

Test:U:229.23V I:0.1196A P:26.419W PF:0.9639 Freq:49.99Hz Lamp Flux:2113.75x1 lm		
NAME: HCP-81222128-28W 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coeffcients(WEC)									
0.0																
1.0	.182	.104	.033	.175	.100	.032	.163	.093	.030	.151	.087	.028	.140	.081	.026	
2.0	.175	.096	.029	.170	.093	.029	.159	.088	.027	.149	.084	.026	.140	.079	.025	
3.0	.167	.089	.027	.163	.087	.026	.153	.083	.025	.145	.079	.024	.137	.076	.024	
4.0	.160	.083	.024	.156	.081	.024	.148	.078	.023	.140	.075	.023	.133	.073	.022	
5.0	.152	.078	.022	.149	.076	.022	.142	.074	.022	.135	.071	.021	.129	.069	.021	
6.0	.145	.073	.021	.142	.072	.021	.136	.070	.020	.131	.068	.020	.125	.066	.020	
7.0	.139	.069	.019	.136	.068	.019	.131	.066	.019	.126	.064	.019	.121	.063	.018	
8.0	.133	.065	.018	.131	.064	.018	.126	.063	.018	.121	.061	.018	.117	.060	.017	
9.0	.127	.062	.017	.125	.061	.017	.121	.060	.017	.117	.059	.017	.113	.057	.017	
10.0	.122	.059	.016	.120	.058	.016	.116	.057	.016	.113	.056	.016	.109	.055	.016	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.171	.157	.144	.147	.135	.124	.100	.093	.086	.058	.054	.050	.019	.017	.016	
2.0	.157	.132	.112	.134	.114	.097	.092	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.145	.114	.089	.124	.098	.077	.085	.068	.054	.049	.040	.032	.016	.013	.010	
4.0	.135	.099	.072	.116	.086	.062	.080	.060	.044	.046	.035	.026	.015	.011	.009	
5.0	.126	.087	.059	.109	.076	.051	.075	.053	.036	.043	.031	.021	.014	.010	.007	
6.0	.119	.078	.049	.102	.068	.043	.071	.047	.030	.041	.028	.018	.013	.009	.006	
7.0	.113	.071	.041	.097	.061	.036	.067	.043	.026	.039	.025	.015	.013	.008	.005	
8.0	.107	.065	.035	.092	.056	.031	.064	.039	.022	.037	.023	.013	.012	.008	.004	
9.0	.102	.060	.031	.088	.052	.027	.061	.036	.019	.036	.021	.011	.012	.007	.004	
10.0	.098	.055	.027	.084	.048	.023	.058	.034	.017	.034	.020	.010	.011	.007	.003	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-03-01

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-81222128-28W 5000K

UGR(Unified Glare Rating) Table

Test:U:229.23V I:0.1196A P:26.419W PF:0.9639 Freq:49.99Hz Lamp Flux:2113.75x1 lm		
NAME: HCP-81222128-28W 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	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	17.9	18.9	18.1	19.1	19.2	17.8	18.7	18.0	18.9	19.1
3H	17.8	18.7	18.0	18.9	19.1	17.6	18.5	17.9	18.7	18.9
4H	17.7	18.5	18.0	18.8	19.0	17.5	18.4	17.8	18.6	18.8
6H	17.6	18.4	17.9	18.6	18.9	17.4	18.2	17.7	18.5	18.7
8H	17.6	18.3	17.9	18.6	18.8	17.4	18.2	17.7	18.4	18.7
12H	17.5	18.2	17.8	18.5	18.8	17.3	18.1	17.7	18.3	18.6
4H 2H	17.7	18.5	18.0	18.7	19.0	17.5	18.4	17.8	18.6	18.8
3H	17.5	18.3	17.9	18.5	18.8	17.4	18.1	17.7	18.4	18.7
4H	17.4	18.1	17.8	18.4	18.7	17.3	17.9	17.6	18.2	18.6
6H	17.4	17.9	17.7	18.3	18.6	17.2	17.8	17.6	18.1	18.5
8H	17.3	17.8	17.7	18.2	18.6	17.1	17.7	17.5	18.0	18.4
12H	17.3	17.8	17.7	18.1	18.5	17.1	17.6	17.5	18.0	18.3
8H 4H	17.3	17.8	17.7	18.2	18.6	17.1	17.7	17.5	18.0	18.4
6H	17.2	17.7	17.6	18.0	18.5	17.0	17.5	17.5	17.9	18.3
8H	17.2	17.5	17.6	18.0	18.4	17.0	17.4	17.4	17.8	18.2
12H	17.1	17.4	17.6	17.9	18.4	16.9	17.3	17.4	17.7	18.2
12H 4H	17.3	17.8	17.7	18.1	18.5	17.1	17.6	17.5	18.0	18.3
6H	17.2	17.5	17.6	18.0	18.4	17.0	17.4	17.4	17.8	18.2
8H	17.1	17.4	17.6	17.9	18.4	16.9	17.3	17.4	17.7	18.2

Variations with the observer position at spacings:		
S = 1.0H	+ 2.9 / -11.2	+ 2.8 / -11.6
1.5H	+ 5.4 / - 9.8	+ 5.4 / - 9.9
2.0H	+ 6.8 / - 4.0	+ 6.0 / - 3.4

CIE Pub.117, 2114 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.6)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-03-01

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-81222128-28W 5000K

UTILIZATION FACTORS TABLE

Test:U:229.23V I:0.1196A P:26.419W PF:0.9639 Freq:49.99Hz Lamp Flux:2113.75x1 lm		
NAME: HCP-81222128-28W 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	SUR.:	Shielding Angle:

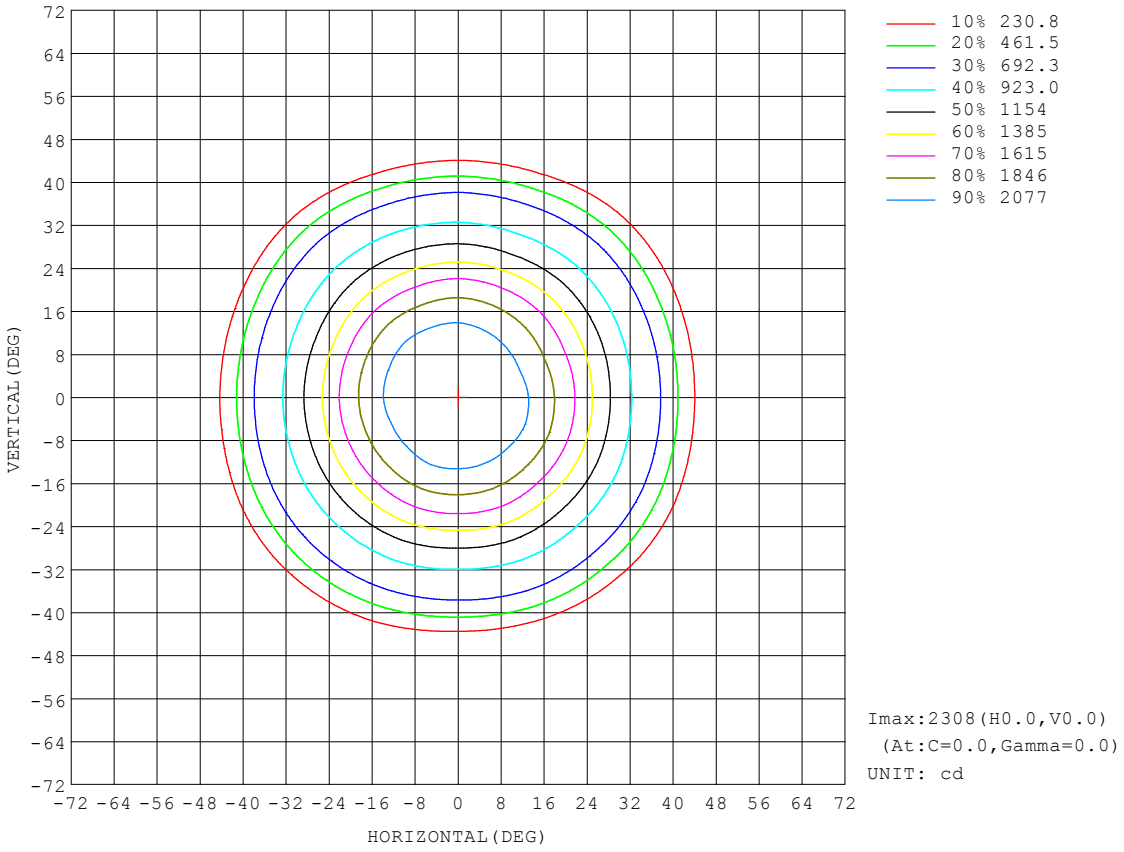
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	85	79	75	85	79	75	84	78	75	71
0.80	93	87	83	93	87	83	91	86	83	79
1.00	98	92	88	97	92	88	96	92	88	84
1.25	102	97	93	101	96	93	99	95	92	88
1.50	105	100	97	104	100	96	102	98	95	91
2.00	108	104	101	107	103	100	104	101	98	93
2.50	110	106	103	108	105	102	105	102	100	94
3.00	111	108	105	110	107	104	106	104	102	95
4.00	114	111	108	111	109	107	108	106	104	97
5.00	115	112	111	113	111	109	109	107	106	98
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-03-01

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-81222128-28W 5000K

ISOCANDELA DIAGRAM

Test:U:229.23V I:0.1196A P:26.419W PF:0.9639 Freq:49.99Hz Lamp Flux:2113.75x1 lm		
NAME: HCP-81222128-28W 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	SUR.:	Shielding Angle:

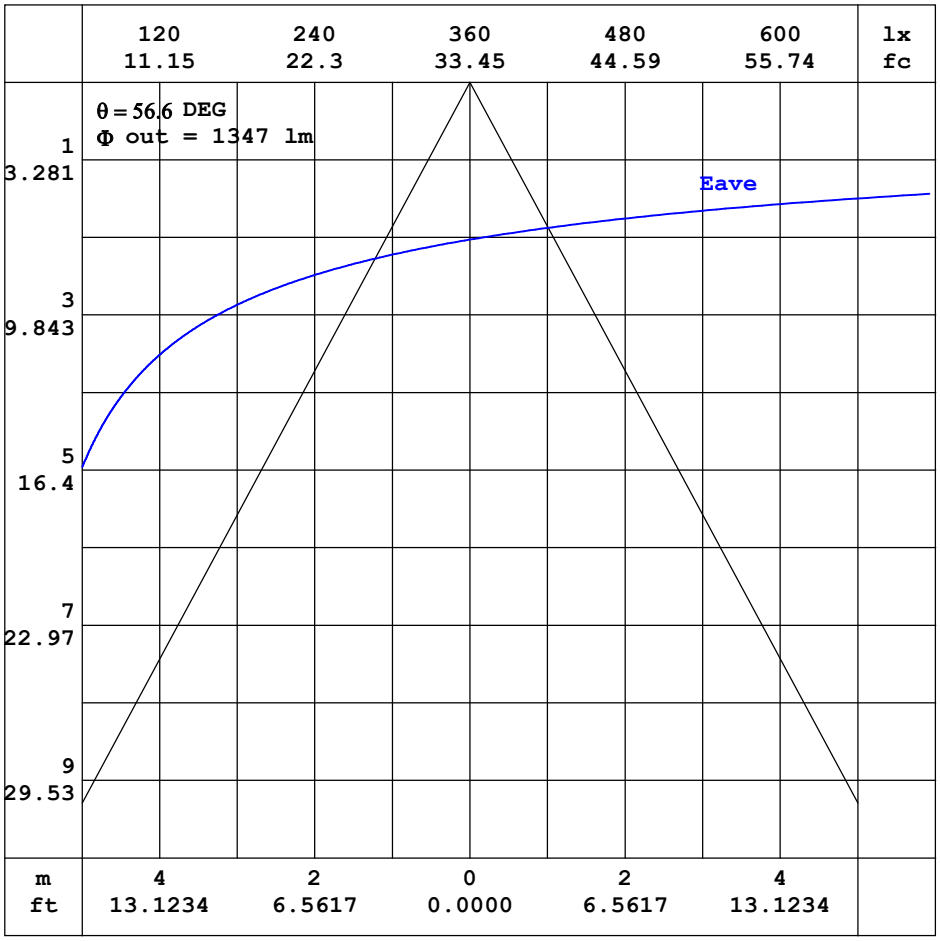


C Range: 0 - 360DEG
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Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-81222128-28W 5000K

AAI CURVES

Test:U:229.23V I:0.1196A P:26.419W PF:0.9639 Freq:49.99Hz Lamp Flux:2113.75x1 lm		
NAME: HCP-81222128-28W 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	SUR.:	Shielding Angle:



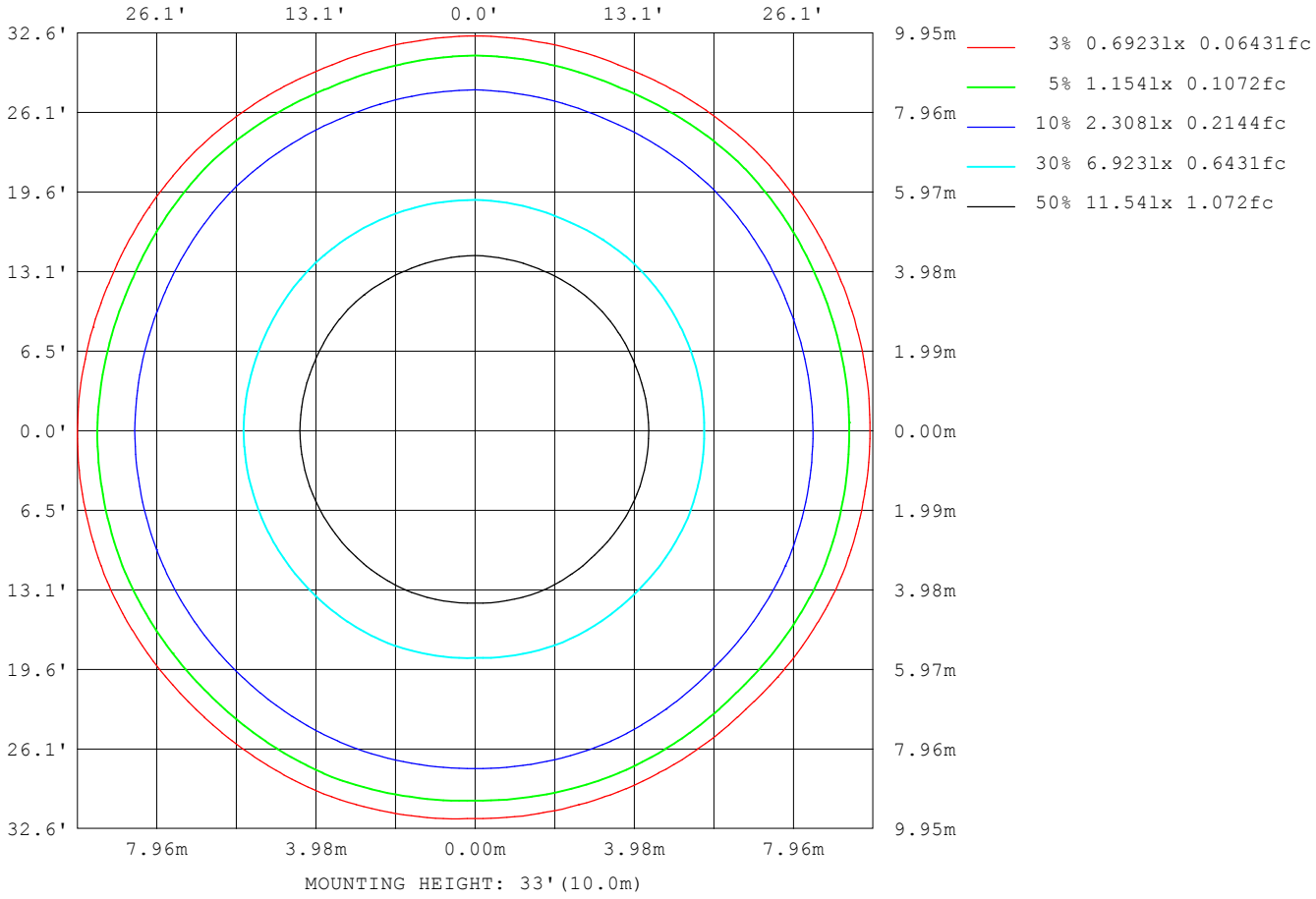
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-03-01

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-81222128-28W 5000K

ISOLUX DIAGRAM

Test:U:229.23V I:0.1196A P:26.419W PF:0.9639 Freq:49.99Hz Lamp Flux:2113.75x1 lm		
NAME: HCP-81222128-28W 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-03-01

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-81222128-28W 5000K

LED Avg.L Report

Test:U:229.23V I:0.1196A P:26.419W PF:0.9639 Freq:49.99Hz Lamp Flux:2113.75x1 lm		
NAME: HCP-81222128-28W 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	SUR.:	Shielding Angle:

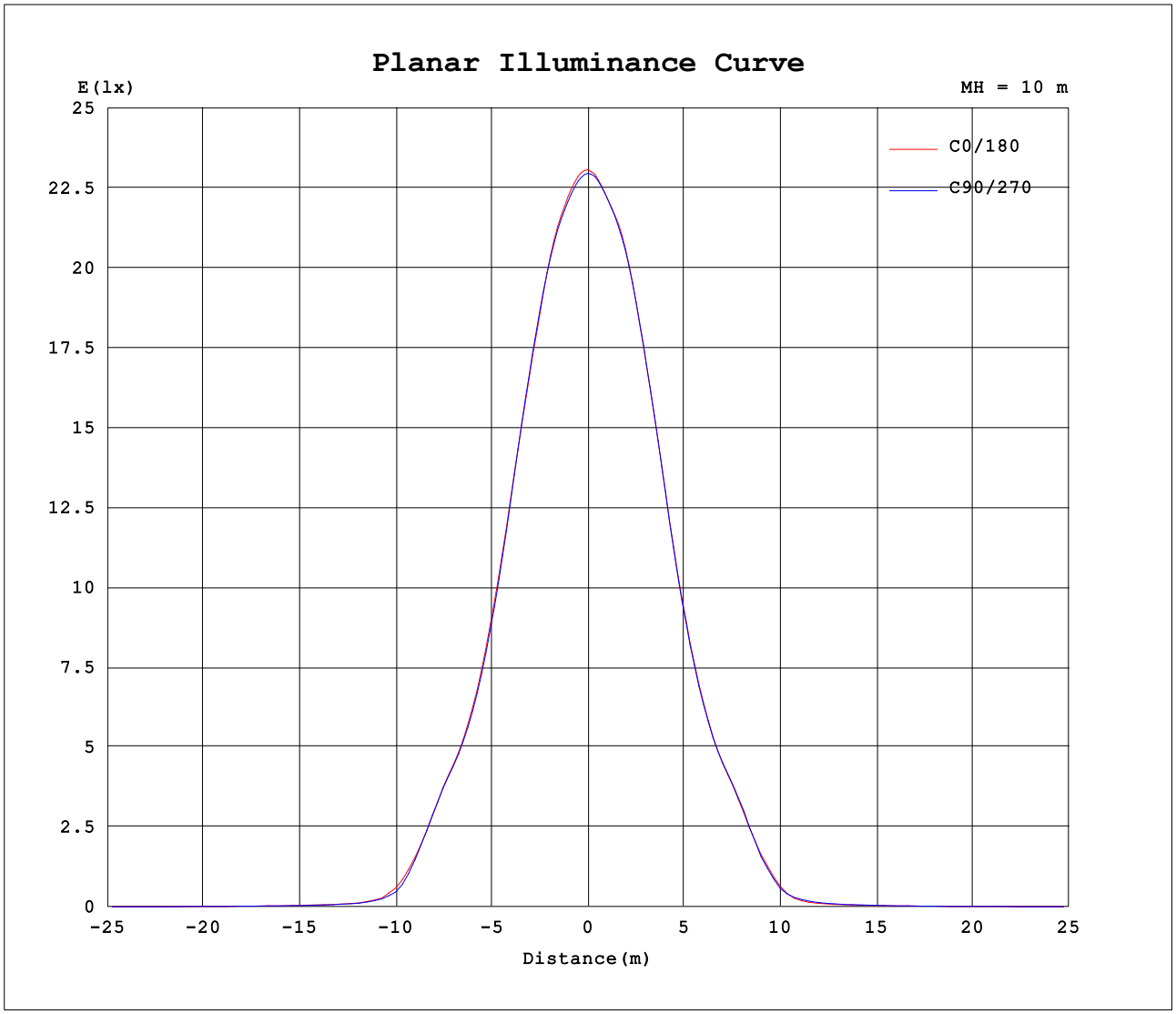
AvgL	cd/m2
L_0~180(65)av	3155
L_0~180(75)av	1300
L_0~180(85)av	368
L_90~270(65)av	3047
L_90~270(75)av	911
L_90~270(85)av	225
L_45(65)av	3190
L_45(75)av	1161
L_45(85)av	247

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-03-01

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-81222128-28W 5000K

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-03-01

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.003m [K=1.0000]
Remarks: HCP-81222128-28W 5000K

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:229.23V I:0.1196A P:26.419W PF:0.9639 Freq:49.99Hz Lamp Flux:2113.75x1 lm		
NAME: HCP-81222128-28W 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ONIKE	SUR.:	Shielding Angle:

Table--1 UNIT: cd

γ (DEG) \ C(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	2308	2304	2301	2298	2296	2294	2292	2291	2308	2304	2301	2298	2296	2294	2292	2291			
5	2273	2272	2268	2264	2258	2253	2245	2241	2260	2261	2265	2262	2260	2252	2250	2249			
10	2186	2191	2176	2180	2176	2179	2169	2175	2200	2202	2201	2193	2191	2181	2169	2163			
15	1993	2010	1999	2002	2005	2015	2004	2009	2027	2030	2045	2028	2030	2008	1986	1968			
20	1728	1738	1723	1734	1726	1738	1730	1739	1756	1757	1767	1747	1757	1739	1730	1707			
25	1384	1387	1367	1381	1363	1386	1385	1393	1403	1394	1406	1392	1395	1383	1394	1382			
30	1046	1056	1038	1047	1030	1054	1053	1062	1073	1061	1070	1066	1062	1044	1062	1057			
35	812	815	807	810	805	806	809	815	817	818	824	819	822	808	814	807			
40	531	540	521	543	533	547	542	549	550	547	564	550	556	531	542	527			
45	168	162	139	137	134	156	166	182	183	167	167	156	164	161	173	171			
50	48.0	48.4	46.4	45.8	44.0	43.3	41.6	42.1	43.0	43.3	46.1	47.4	53.2	52.6	52.3	49.8			
55	29.1	29.4	29.4	29.2	28.0	27.5	27.5	27.8	27.9	27.4	28.7	28.8	30.6	30.4	30.6	29.7			
60	19.8	20.2	20.1	19.7	18.8	18.7	19.0	19.4	19.6	19.2	19.8	19.8	20.6	20.1	20.0	19.6			
65	12.7	12.9	13.1	12.7	11.8	12.0	12.2	12.6	12.6	12.4	12.9	12.6	12.6	12.7	13.0	12.6			
70	7.20	7.31	7.23	6.64	6.26	6.27	6.76	6.96	7.12	6.75	7.01	6.57	6.80	6.63	7.16	7.22			
75	3.42	3.55	3.03	2.41	2.14	2.23	2.64	2.97	2.97	2.59	2.62	2.30	2.33	2.32	3.13	3.37			
80	1.10	1.01	0.89	0.75	0.73	0.71	0.81	0.87	0.87	0.82	0.71	0.69	0.69	0.75	0.88	1.06			
85	0.37	0.29	0.23	0.16	0.20	0.16	0.22	0.24	0.24	0.24	0.17	0.20	0.18	0.22	0.20	0.33			
90	0.10	0.12	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.11	0.10	0.11	0.10	0.10	0.10	0.11			

C Range: 0 - 360DEG
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