

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P238008

Luminaire Tested: **PRS610D010-S6M12-64SMDMW-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238008
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS610D010-S6M12-64SMDMW-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SHALLOW TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1081.8 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.95 / 1.01
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

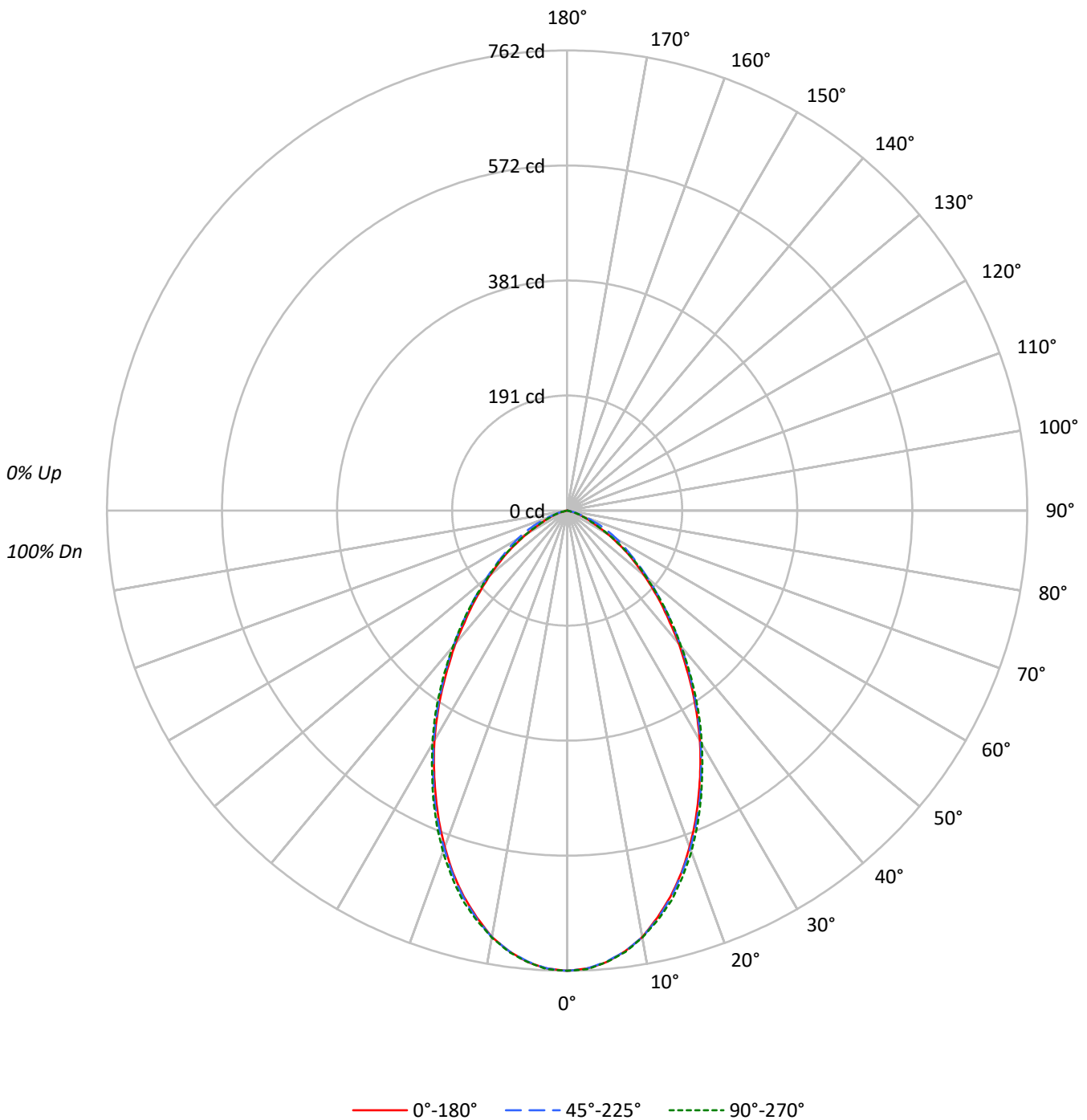
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P238008

CATALOG NUMBER: PRS610D010-S6M12-64SMDMW-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P238008

CATALOG NUMBER: PRS610D010-S6M12-64SMDMW-3000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90					90			
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80					80			
3	97	89	82	77	95	87	81	76	84	79	75	82	78	74	79	76	73	71					71			
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63					63			
5	84	74	66	61	82	73	66	60	71	65	60	69	64	59	67	62	59	57					57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52					52			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	52	49	47					47			
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39					39			
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	32808	32808	32808
5°	32437	32393	32437
10°	31347	31347	31386
15°	29486	29571	29785
20°	27148	27281	27546
25°	24513	24784	24922
30°	21845	21985	22178
35°	18969	19169	19369
40°	16193	16462	16519
45°	13524	13932	13932
50°	11159	11668	11414
55°	8985	9698	9195
60°	6596	8241	6760
65°	4483	6530	4585
70°	3248	4217	3248
75°	1913	2229	1747
80°	471	719	471
85°	494	494	494



TEST NUMBER: P238008

CATALOG NUMBER: PRS610D010-S6M12-64SMDMW-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.6	6.5
10°-20°	185.7	17.2
20°-30°	238.4	22.0
30°-40°	227.8	21.1
40°-50°	176.5	16.3
50°-60°	113.5	10.5
60°-70°	53.8	5.0
70°-80°	14.4	1.3
80°-90°	1.1	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	494.7	45.7
0°-40°	722.6	66.8
0°-60°	1012.5	93.6
0°-90°	1081.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1081.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	762	762	762	762	762	
5°	750	750	750	750	750	71
15°	662	662	663	666	668	185
25°	516	517	522	523	525	237
35°	361	362	365	367	368	225
45°	222	227	229	231	229	172
55°	120	126	129	128	122	107
65°	44	51	64	51	45	46
75°	12	13	13	13	10	12
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P238008

CATALOG NUMBER: PRS610D010-S6M12-64SMDMW-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	762.0	762.0	762.0	762.0	762.0
2.5°	759.1	759.1	759.1	759.1	760.1
5°	750.5	750.5	749.5	750.5	750.5
7.5°	736.1	736.1	736.1	737.1	737.1
10°	717.0	717.0	717.0	717.9	717.9
12.5°	690.2	691.1	692.1	694.0	694.0
15°	661.5	662.4	663.4	666.2	668.2
17.5°	628.9	629.9	630.8	634.7	635.6
20°	592.5	592.5	595.4	600.2	601.2
22.5°	555.2	556.2	559.0	560.9	563.8
25°	516.0	516.9	521.7	522.7	524.6
27.5°	477.7	477.7	480.5	482.5	484.4
30°	439.4	439.4	442.2	443.2	446.1
32.5°	399.2	400.1	403.0	404.9	407.8
35°	360.9	361.8	364.7	366.6	368.5
37.5°	321.6	326.4	328.3	330.3	330.3
40°	288.1	291.0	292.9	295.8	293.9
42.5°	251.8	258.5	259.4	262.3	260.4
45°	222.1	226.9	228.8	230.7	228.8
47.5°	192.4	198.2	200.1	201.0	198.2
50°	166.6	171.3	174.2	174.2	170.4
52.5°	141.7	147.4	150.3	150.3	146.5
55°	119.7	126.4	129.2	128.3	122.5
57.5°	96.7	105.3	112.0	107.2	99.6
60°	76.6	86.2	95.7	87.1	78.5
62.5°	57.4	67.0	79.5	68.0	58.4
65°	44.0	50.7	64.1	50.7	45.0
67.5°	34.5	38.3	47.9	38.3	34.5
70°	25.8	28.7	33.5	28.7	25.8
72.5°	18.2	21.1	22.0	21.1	18.2
75°	11.5	13.4	13.4	13.4	10.5
77.5°	3.8	5.7	7.7	5.7	3.8
80°	1.9	1.9	2.9	1.9	1.9
82.5°	1.9	1.9	1.9	1.9	1.9
85°	1.0	1.0	1.0	1.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)