

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: P238053

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238053
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-8)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS610D010-S6M12-64SMDH-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SHALLOW TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1064.6 lumens
Efficiency: N/A
Efficacy: 106.5 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

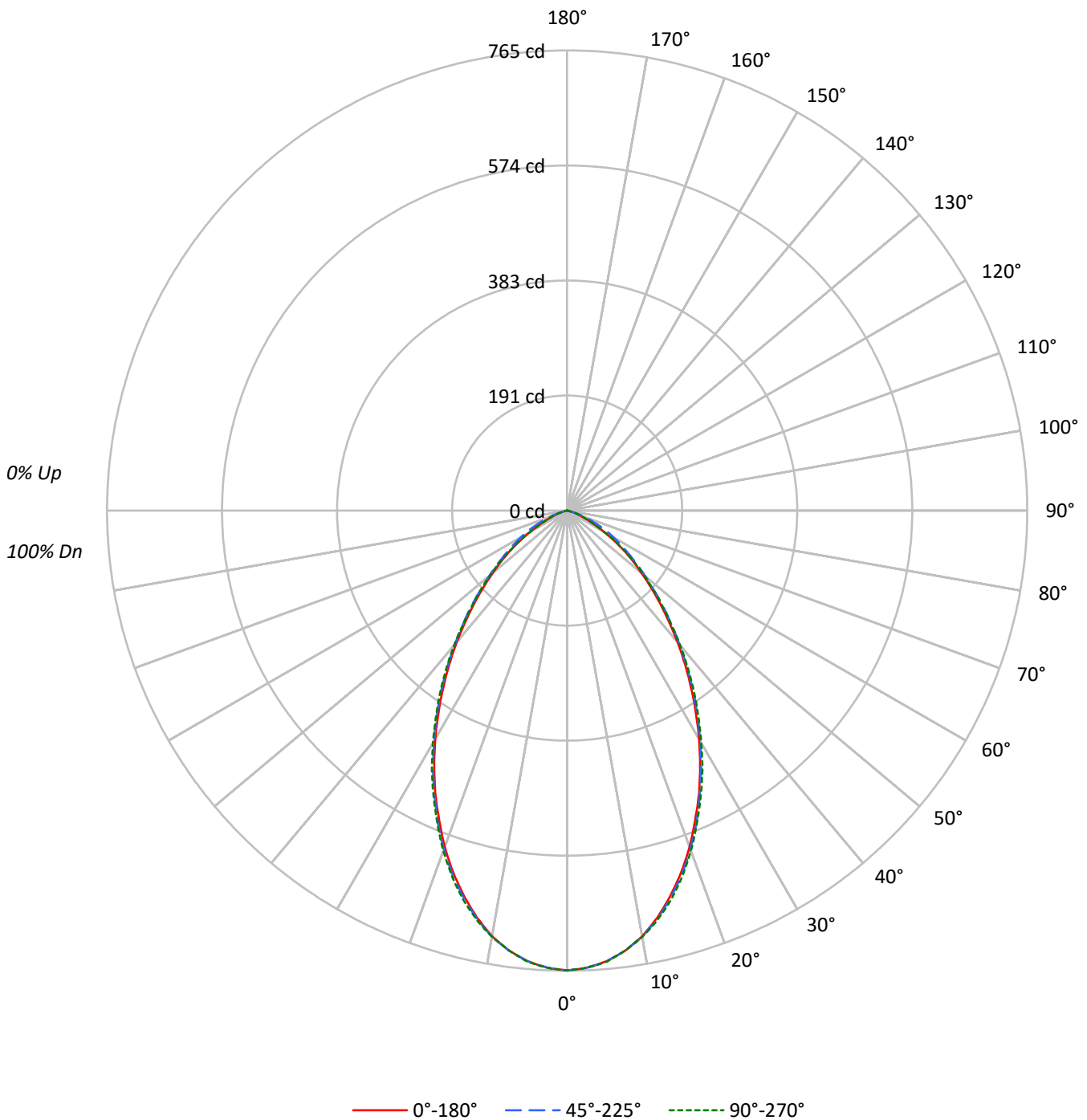
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90					90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80					80			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	72					72			
4	91	81	74	69	89	80	73	68	78	72	68	75	71	67	73	69	66	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52					52			
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48					48			
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44					44			
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	45	42	40					40			
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	32920	32920	32920
5°	32506	32506	32549
10°	31417	31461	31461
15°	29557	29687	29816
20°	27271	27446	27578
25°	24637	24775	24955
30°	21791	21980	22169
35°	18859	19164	19316
40°	16030	16350	16406
45°	13286	13749	13578
50°	10771	11347	11086
55°	8550	9338	8693
60°	6097	7664	6097
65°	3994	5848	4096
70°	2656	3613	2769
75°	1281	1597	1281
80°	0	248	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.8	6.6
10°-20°	186.3	17.5
20°-30°	239.1	22.5
30°-40°	227.3	21.3
40°-50°	173.5	16.3
50°-60°	108.4	10.2
60°-70°	48.4	4.5
70°-80°	10.7	1.0
80°-90°	0.0	0.0
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°	496.2	46.6
0°-40°	723.4	68.0
0°-60°	1005.4	94.4
0°-90°	1064.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1064.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	765	765	765	765	765	
5°	752	752	752	753	753	71
15°	663	664	666	668	669	186
25°	519	520	522	523	525	237
35°	359	363	365	366	368	224
45°	218	223	226	227	223	169
55°	114	121	124	122	116	102
65°	39	45	57	46	40	41
75°	8	10	10	10	8	9
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	764.6	764.6	764.6	764.6	764.6
2.5°	760.7	760.7	760.7	760.7	760.7
5°	752.1	752.1	752.1	753.1	753.1
7.5°	737.8	737.8	737.8	738.7	737.8
10°	718.6	718.6	719.6	719.6	719.6
12.5°	692.8	693.8	694.7	695.7	696.6
15°	663.1	664.1	666.0	667.9	668.9
17.5°	630.6	630.6	634.4	637.3	637.3
20°	595.2	596.2	599.0	600.0	601.9
22.5°	556.0	558.8	561.7	562.7	563.6
25°	518.6	519.6	521.5	523.4	525.3
27.5°	478.5	479.4	482.3	483.2	487.1
30°	438.3	440.2	442.1	444.0	445.9
32.5°	398.1	400.0	402.9	403.8	405.7
35°	358.8	362.7	364.6	365.5	367.5
37.5°	321.5	325.4	326.3	329.2	329.2
40°	285.2	289.0	290.9	292.8	291.9
42.5°	249.8	254.5	256.5	259.3	256.5
45°	218.2	223.0	225.8	226.8	223.0
47.5°	188.5	194.3	195.2	196.2	194.3
50°	160.8	166.5	169.4	170.3	165.5
52.5°	137.8	142.6	145.5	144.5	140.7
55°	113.9	120.6	124.4	122.5	115.8
57.5°	91.9	99.5	105.3	100.5	93.8
60°	70.8	79.4	89.0	81.3	70.8
62.5°	52.6	61.2	73.7	61.2	52.6
65°	39.2	45.0	57.4	45.9	40.2
67.5°	28.7	33.5	43.1	33.5	29.7
70°	21.1	24.9	28.7	24.9	22.0
72.5°	14.4	17.2	17.2	17.2	14.4
75°	7.7	9.6	9.6	9.6	7.7
77.5°	1.0	2.9	3.8	2.9	1.0
80°	0.0	0.0	1.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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)