

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: P238059

Luminaire Tested: **PRS615D010-S6M12-64SMDH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238059  
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: PRS615D010-S6M12-64SMDH  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SHALLOW TRIM HAZE  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

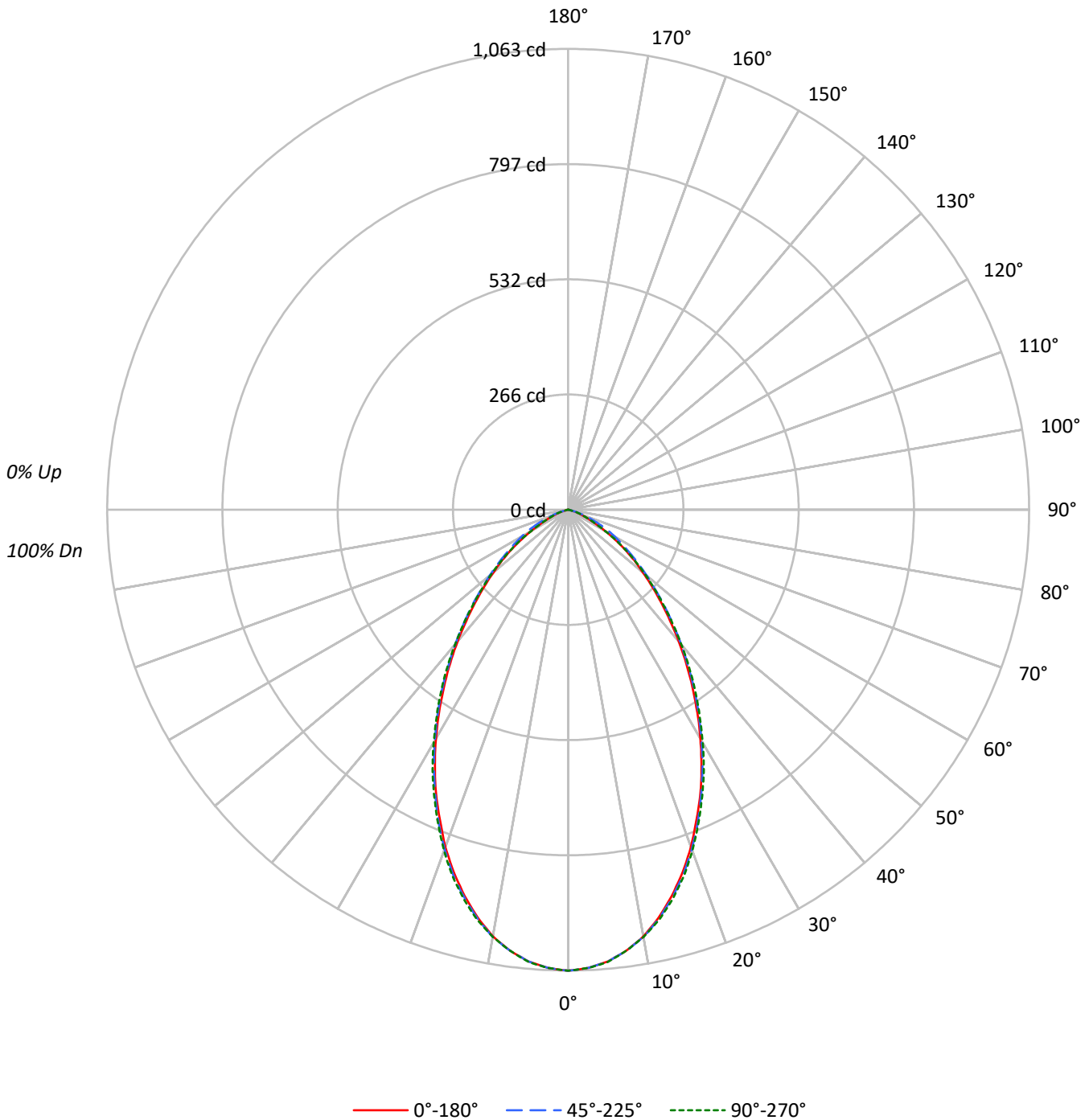
Lumens per Lamp: N/A  
Luminaire Lumens: 1480.6 lumens  
Efficiency: N/A  
Efficacy: 117.5 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.95 / 1.01  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 12.6  
Input Voltage (V): NR  
Input Current (Ain): 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°	45785	45785	45785
5°	45213	45213	45269
10°	43698	43755	43755
15°	41111	41289	41468
20°	37929	38172	38355
25°	34267	34457	34708
30°	30302	30571	30834
35°	26233	26654	26864
40°	22291	22741	22814
45°	18474	19126	18882
50°	14977	15781	15419
55°	11890	12986	12086
60°	8482	10661	8482
65°	5563	8140	5695
70°	3688	5023	3852
75°	1763	2213	1763
80°	0	322	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.4	6.6
10°-20°	259.1	17.5
20°-30°	332.5	22.5
30°-40°	316.1	21.3
40°-50°	241.3	16.3
50°-60°	150.8	10.2
60°-70°	67.4	4.6
70°-80°	14.9	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°	690.1	46.6
0°-40°	1006.1	68.0
0°-60°	1398.3	94.4
0°-90°	1480.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1480.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1063	1063	1063	1063	1063	
5°	1046	1046	1046	1047	1047	98
15°	922	924	926	929	930	258
25°	721	723	725	728	731	330
35°	499	504	507	508	511	312
45°	303	310	314	315	310	235
55°	158	168	173	170	161	142
65°	55	63	80	64	56	57
75°	11	13	13	13	11	12
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°	1063.4	1063.4	1063.4	1063.4	1063.4
2.5°	1058.0	1058.0	1058.0	1058.0	1058.0
5°	1046.1	1046.1	1046.1	1047.4	1047.4
7.5°	1026.1	1026.1	1026.1	1027.4	1026.1
10°	999.5	999.5	1000.8	1000.8	1000.8
12.5°	963.5	964.9	966.2	967.5	968.9
15°	922.3	923.6	926.3	928.9	930.3
17.5°	877.0	877.0	882.4	886.4	886.4
20°	827.8	829.1	833.1	834.5	837.1
22.5°	773.2	777.2	781.2	782.6	783.9
25°	721.3	722.7	725.3	728.0	730.6
27.5°	665.4	666.8	670.8	672.1	677.4
30°	609.5	612.2	614.9	617.5	620.2
32.5°	553.6	556.3	560.3	561.6	564.3
35°	499.1	504.4	507.1	508.4	511.1
37.5°	447.2	452.5	453.8	457.8	457.8
40°	396.6	401.9	404.6	407.2	405.9
42.5°	347.4	354.0	356.7	360.7	356.7
45°	303.4	310.1	314.1	315.4	310.1
47.5°	262.2	270.2	271.5	272.8	270.2
50°	223.6	231.6	235.6	236.9	230.2
52.5°	191.6	198.3	202.3	201.0	195.6
55°	158.4	167.7	173.0	170.4	161.0
57.5°	127.8	138.4	146.4	139.7	130.4
60°	98.5	110.5	123.8	113.1	98.5
62.5°	73.2	85.2	102.5	85.2	73.2
65°	54.6	62.6	79.9	63.9	55.9
67.5°	39.9	46.6	59.9	46.6	41.3
70°	29.3	34.6	39.9	34.6	30.6
72.5°	20.0	24.0	24.0	24.0	20.0
75°	10.6	13.3	13.3	13.3	10.6
77.5°	1.3	4.0	5.3	4.0	1.3
80°	0.0	0.0	1.3	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)