

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: P238316

Luminaire Tested: **PRS630D010-S6M24-64SNDMB**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238316  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-1)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS630D010-S6M24-64SNDMB  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SHALLOW TRIM MATTE BLACK  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

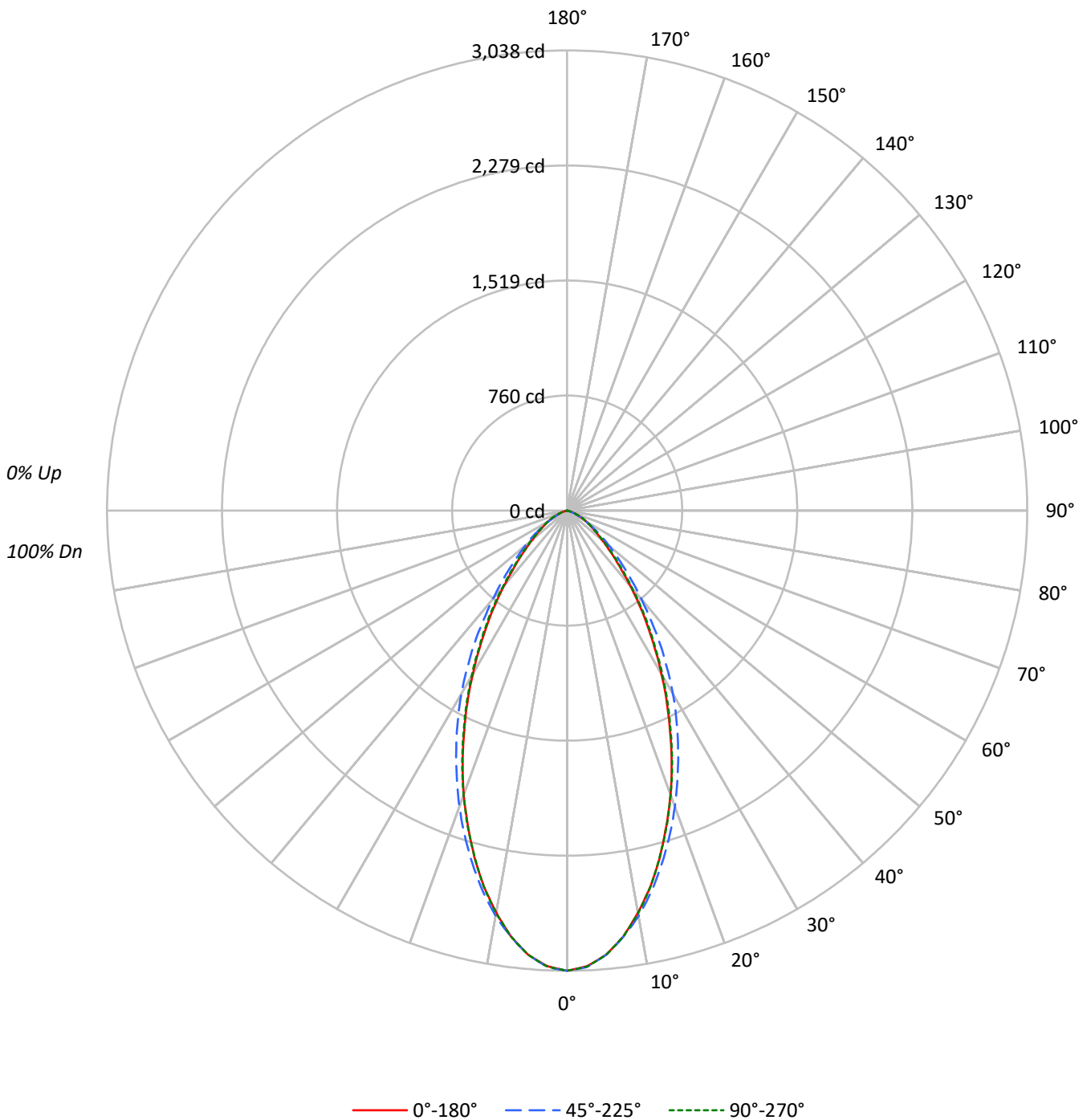
Lumens per Lamp: N/A  
Luminaire Lumens: 3012.6 lumens  
Efficiency: N/A  
Efficacy: 118.1 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.89  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 25.5  
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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92				
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83				
3	99	92	86	82	97	91	85	81	88	83	80	85	82	78	83	80	77	75				
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69				
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63				
6	83	73	66	61	81	72	65	61	70	65	60	69	64	60	67	63	59	58				
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53				
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	55	51	50				
9	70	59	53	48	69	59	52	48	58	52	48	57	52	48	56	51	48	46				
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	130816	130816	130816
5°	127253	127253	127253
10°	117843	118813	117965
15°	105486	107581	105361
20°	91454	95257	91583
25°	76438	82348	76961
30°	61852	69409	62672
35°	48388	55946	49408
40°	36359	42733	37292
45°	26767	32150	27778
50°	20001	24074	20925
55°	15561	17640	15981
60°	12615	12142	12856
65°	9291	8171	9577
70°	6269	5224	6269
75°	2761	2296	2761
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	273.5	9.1
10°-20°	665.9	22.1
20°-30°	764.4	25.4
30°-40°	618.9	20.5
40°-50°	379.3	12.6
50°-60°	203.6	6.8
60°-70°	88.0	2.9
70°-80°	19.0	0.6
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°	1703.8	56.6
0°-40°	2322.7	77.1
0°-60°	2905.6	96.4
0°-90°	3012.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3012.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3038	3038	3038	3038	3038	
5°	2944	2944	2944	2944	2944	273
15°	2366	2389	2414	2391	2364	658
25°	1609	1664	1733	1667	1620	737
35°	921	979	1064	990	940	577
45°	440	473	528	478	456	346
55°	207	224	235	227	213	190
65°	91	86	80	86	94	94
75°	17	17	14	17	17	20
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°	3038.3	3038.3	3038.3	3038.3	3038.3
2.5°	3010.6	3013.4	3016.1	3013.4	3013.4
5°	2944.3	2944.3	2944.3	2944.3	2944.3
7.5°	2836.4	2842.0	2839.2	2839.2	2836.4
10°	2695.4	2709.3	2717.6	2709.3	2698.2
12.5°	2540.6	2557.2	2573.8	2554.5	2543.4
15°	2366.5	2388.6	2413.5	2391.3	2363.7
17.5°	2178.5	2214.4	2250.4	2214.4	2184.0
20°	1996.0	2037.5	2079.0	2034.7	1998.8
22.5°	1802.5	1841.2	1904.8	1846.7	1810.8
25°	1609.0	1664.3	1733.4	1667.0	1620.0
27.5°	1423.7	1481.8	1564.7	1492.9	1437.6
30°	1244.1	1307.6	1396.1	1318.7	1260.6
32.5°	1075.4	1139.0	1224.7	1150.1	1092.0
35°	920.6	978.7	1064.4	989.7	940.0
37.5°	779.6	826.6	901.2	837.7	799.0
40°	646.9	691.1	760.3	699.4	663.5
42.5°	530.8	572.3	638.6	583.3	552.9
45°	439.6	472.7	528.0	478.3	456.2
47.5°	362.2	392.6	436.8	395.3	376.0
50°	298.6	323.5	359.4	329.0	312.4
52.5°	248.8	270.9	298.6	273.7	257.1
55°	207.3	223.9	235.0	226.7	212.9
57.5°	174.2	179.7	182.5	182.5	179.7
60°	146.5	141.0	141.0	143.8	149.3
62.5°	121.6	110.6	107.8	113.3	124.4
65°	91.2	85.7	80.2	85.7	94.0
67.5°	69.1	60.8	58.1	63.6	71.9
70°	49.8	44.2	41.5	44.2	49.8
72.5°	30.4	30.4	24.9	30.4	30.4
75°	16.6	16.6	13.8	16.6	16.6
77.5°	5.5	5.5	2.8	5.5	8.3
80°	0.0	0.0	0.0	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)