

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: P238096

Luminaire Tested: **PRS630D010-S6M24-64SNDC-4000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238096  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-10)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS630D010-S6M24-64SNDC-4000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SHALLOW TRIM SPECULAR  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2999.5 lumens  
Efficiency: N/A  
Efficacy: 117.6 lumens/watt  
Spacing Criteria (0/90/45): 0.82 / 0.83 / 0.86  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

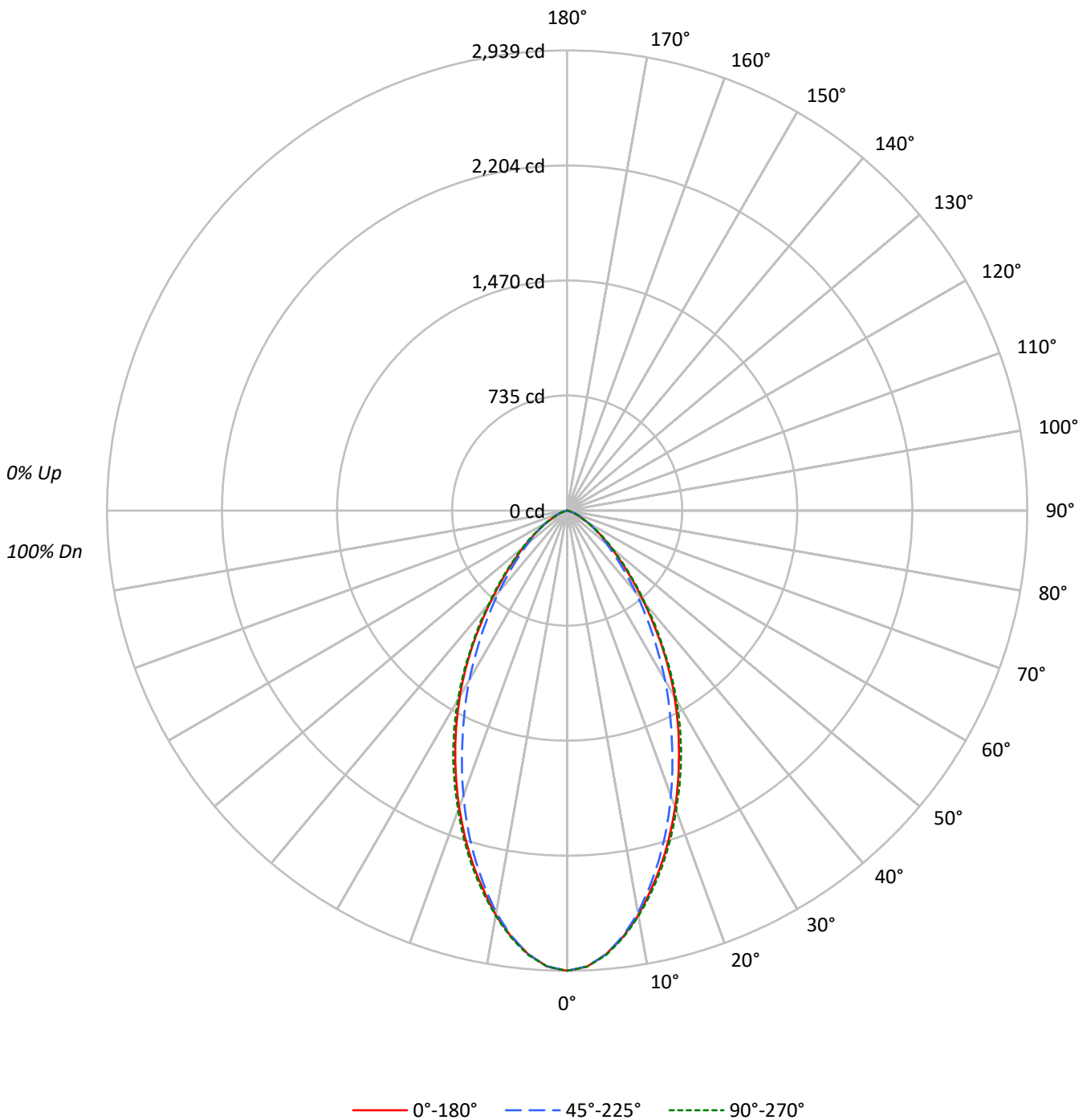
Input Watts (W): 25.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83					83			
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75					75			
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68					68			
5	88	78	71	66	86	77	70	66	75	69	65	73	68	65	72	67	64	62					62			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57					57			
7	78	67	60	55	76	66	60	55	65	59	55	64	59	55	63	58	54	53					53			
8	73	63	56	51	72	62	56	51	61	55	51	60	54	51	59	54	50	49					49			
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45					45			
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42					42			

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

	0°	45°	90°
0°	126536	126536	126536
5°	122922	122922	123147
10°	114660	113969	114891
15°	103979	101982	104683
20°	92389	88765	93237
25°	80267	75008	81768
30°	68141	62116	69320
35°	55415	49323	56109
40°	42817	38073	43553
45°	32259	28728	33386
50°	24362	21890	25246
55°	17610	17017	18203
60°	12486	13614	12710
65°	8588	9933	8588
70°	5640	6634	5640
75°	2628	3078	2628
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	264.3	8.8
10°-20°	644.9	21.5
20°-30°	750.2	25.0
30°-40°	620.6	20.7
40°-50°	391.5	13.1
50°-60°	213.0	7.1
60°-70°	93.6	3.1
70°-80°	21.5	0.7
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°	1659.4	55.3
0°-40°	2279.9	76.0
0°-60°	2884.4	96.2
0°-90°	2999.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2999.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2939	2939	2939	2939	2939	
5°	2844	2847	2844	2847	2849	264
15°	2333	2306	2288	2320	2348	651
25°	1690	1624	1579	1645	1721	774
35°	1054	975	938	991	1068	657
45°	530	488	472	496	548	416
55°	235	232	227	237	242	217
65°	84	92	98	92	84	87
75°	16	18	18	21	16	18
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°	2938.9	2938.9	2938.9	2938.9	2938.9
2.5°	2915.2	2912.6	2912.6	2915.2	2915.2
5°	2844.1	2846.7	2844.1	2846.7	2849.3
7.5°	2743.9	2741.3	2738.6	2746.5	2749.2
10°	2622.6	2614.7	2606.8	2620.0	2627.9
12.5°	2477.7	2464.5	2451.3	2472.4	2493.5
15°	2332.7	2306.3	2287.9	2319.5	2348.5
17.5°	2177.2	2142.9	2116.6	2153.5	2195.6
20°	2016.4	1971.6	1937.3	1982.1	2034.9
22.5°	1853.0	1797.6	1755.5	1813.4	1879.3
25°	1689.6	1623.7	1578.9	1644.8	1721.2
27.5°	1531.4	1455.0	1410.2	1473.4	1560.4
30°	1370.6	1291.6	1249.4	1312.6	1394.3
32.5°	1212.5	1133.4	1086.0	1149.2	1233.6
35°	1054.3	975.3	938.4	991.1	1067.5
37.5°	896.2	830.3	801.3	846.1	922.5
40°	761.8	701.1	677.4	711.7	774.9
42.5°	637.9	582.5	564.1	598.3	659.0
45°	529.8	487.6	471.8	495.5	548.3
47.5°	437.5	405.9	392.7	416.5	453.4
50°	363.7	340.0	326.8	345.3	376.9
52.5°	297.8	282.0	271.5	287.3	308.4
55°	234.6	232.0	226.7	237.2	242.5
57.5°	187.1	187.1	189.8	189.8	189.8
60°	145.0	150.2	158.1	152.9	147.6
62.5°	110.7	118.6	126.5	118.6	113.3
65°	84.3	92.3	97.5	92.3	84.3
67.5°	63.3	68.5	73.8	68.5	63.3
70°	44.8	50.1	52.7	50.1	44.8
72.5°	29.0	34.3	34.3	34.3	29.0
75°	15.8	18.5	18.5	21.1	15.8
77.5°	2.6	5.3	7.9	7.9	2.6
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)