

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: P238091

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238091  
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  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SHALLOW TRIM SPECULAR  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

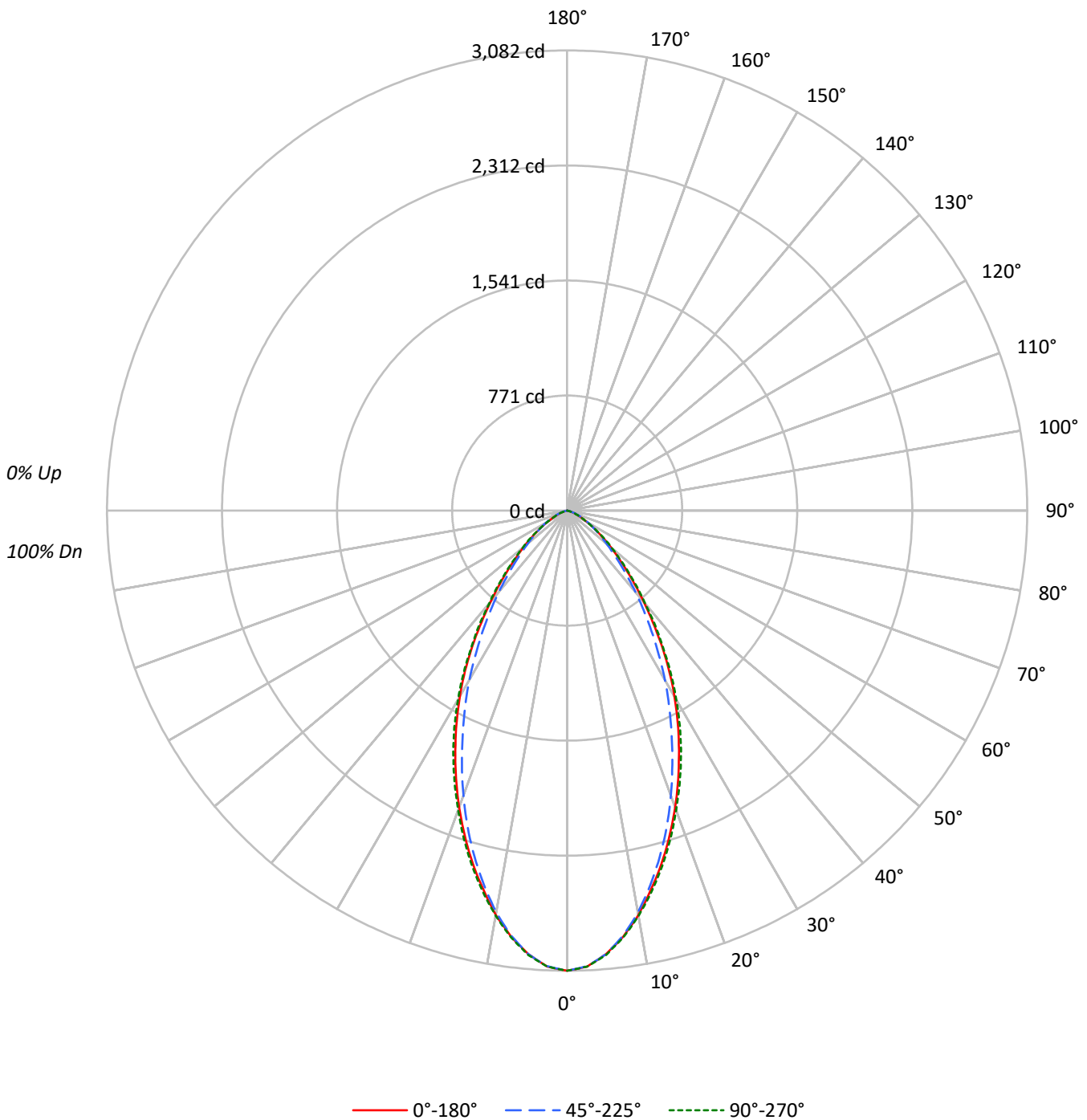
Lumens per Lamp: N/A  
Luminaire Lumens: 3145.2 lumens  
Efficiency: N/A  
Efficacy: 123.3 lumens/watt  
Spacing Criteria (0/90/45): 0.82 / 0.83 / 0.86  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

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





TEST NUMBER: P238091

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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°	132689	132689	132689
5°	128895	128895	129133
10°	120234	119508	120474
15°	109034	106939	109774
20°	96879	93081	97768
25°	84168	78652	85745
30°	71452	65133	72690
35°	58112	51720	58837
40°	44897	39923	45672
45°	33830	30122	35006
50°	25547	22955	26472
55°	18466	17843	19089
60°	13089	14277	13330
65°	9006	10422	9006
70°	5917	6962	5917
75°	2761	3211	2761
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	277.1	8.8
10°-20°	676.2	21.5
20°-30°	786.6	25.0
30°-40°	650.7	20.7
40°-50°	410.5	13.1
50°-60°	223.4	7.1
60°-70°	98.1	3.1
70°-80°	22.5	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°	1740.0	55.3
0°-40°	2390.7	76.0
0°-60°	3024.6	96.2
0°-90°	3145.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3145.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3082	3082	3082	3082	3082	
5°	2982	2985	2982	2985	2988	277
15°	2446	2418	2399	2432	2463	682
25°	1772	1703	1656	1725	1805	812
35°	1106	1023	984	1039	1119	689
45°	556	511	495	520	575	436
55°	246	243	238	249	254	227
65°	88	97	102	97	88	91
75°	17	19	19	22	17	19
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P238091

CATALOG NUMBER: PRS630D010-S6M24-64SNDC

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3081.8	3081.8	3081.8	3081.8	3081.8
2.5°	3056.9	3054.2	3054.2	3056.9	3056.9
5°	2982.3	2985.1	2982.3	2985.1	2987.8
7.5°	2877.3	2874.5	2871.7	2880.0	2882.8
10°	2750.1	2741.8	2733.5	2747.4	2755.6
12.5°	2598.1	2584.3	2570.5	2592.6	2614.7
15°	2446.1	2418.4	2399.1	2432.3	2462.7
17.5°	2283.0	2247.1	2219.4	2258.1	2302.4
20°	2114.4	2067.4	2031.5	2078.5	2133.8
22.5°	1943.0	1885.0	1840.8	1901.6	1970.7
25°	1771.7	1702.6	1655.6	1724.7	1804.9
27.5°	1605.8	1525.7	1478.7	1545.0	1636.3
30°	1437.2	1354.3	1310.1	1376.4	1462.1
32.5°	1271.4	1188.5	1138.7	1205.1	1293.5
35°	1105.6	1022.7	984.0	1039.2	1119.4
37.5°	939.7	870.6	840.2	887.2	967.4
40°	798.8	735.2	710.3	746.3	812.6
42.5°	668.9	610.8	591.5	627.4	691.0
45°	555.6	511.3	494.7	519.6	574.9
47.5°	458.8	425.6	411.8	436.7	475.4
50°	381.4	356.5	342.7	362.1	395.2
52.5°	312.3	295.7	284.7	301.3	323.4
55°	246.0	243.2	237.7	248.8	254.3
57.5°	196.2	196.2	199.0	199.0	199.0
60°	152.0	157.5	165.8	160.3	154.8
62.5°	116.1	124.4	132.7	124.4	118.8
65°	88.4	96.7	102.3	96.7	88.4
67.5°	66.3	71.9	77.4	71.9	66.3
70°	47.0	52.5	55.3	52.5	47.0
72.5°	30.4	35.9	35.9	35.9	30.4
75°	16.6	19.3	19.3	22.1	16.6
77.5°	2.8	5.5	8.3	8.3	2.8
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)