

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: P238006

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238006
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-4)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS630D010-S6M24-64SNDMW-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SHALLOW TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3023.2 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.83 / 0.85
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

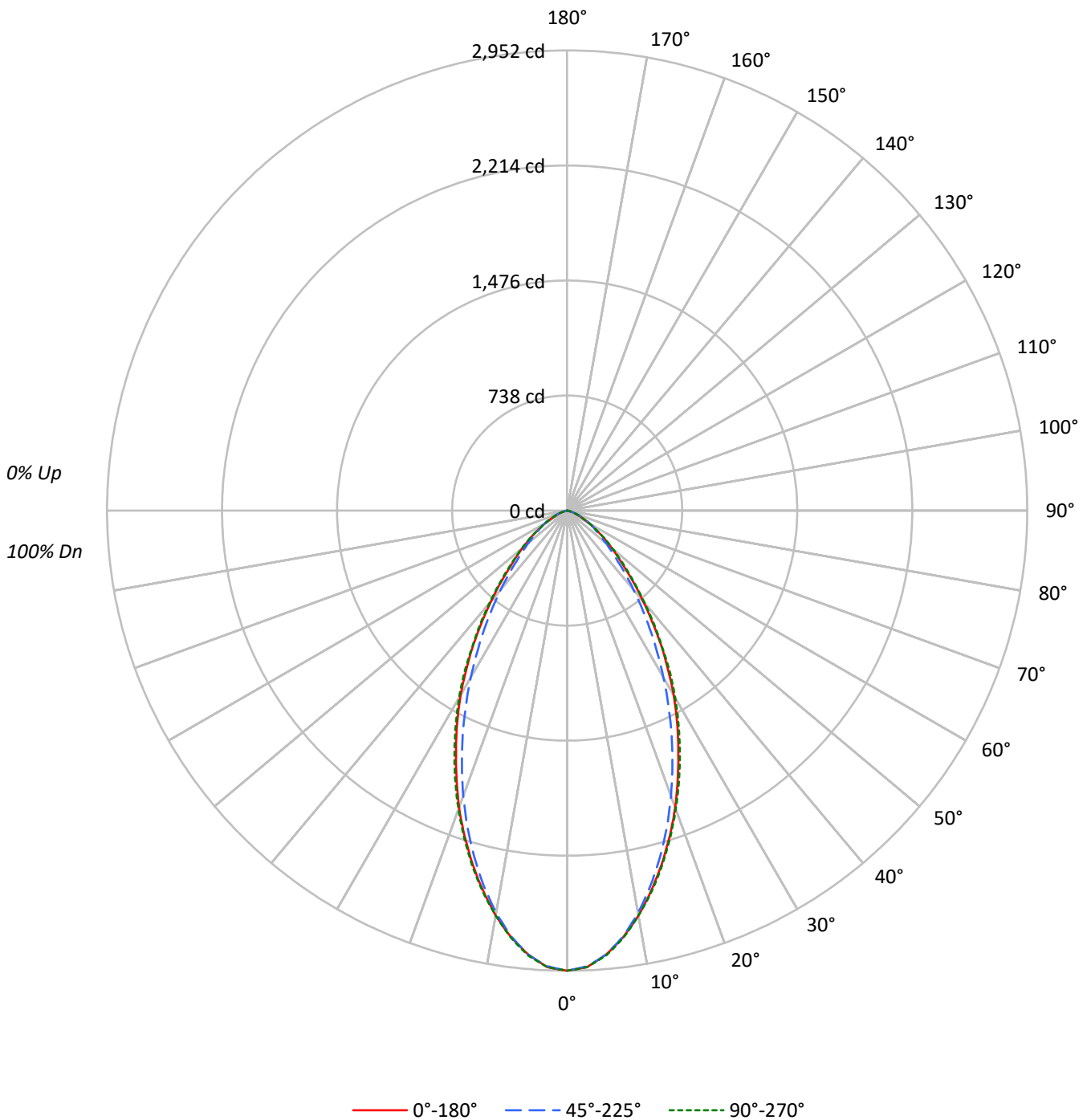
Input Watts (W): 25.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	127105	127105	127105
5°	123601	123601	123830
10°	115350	114546	115350
15°	104563	102566	105035
20°	92870	89246	93351
25°	80139	75255	81265
30°	67878	61459	68927
35°	55000	48488	55552
40°	42519	37185	43407
45°	32101	27924	33222
50°	24891	21716	25601
55°	18992	17212	19389
60°	13847	14527	13847
65°	9933	11278	9668
70°	6974	7969	6974
75°	3943	4392	3943
80°	1314	1314	1314
85°	1284	1284	1284



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.7	8.8
10°-20°	648.3	21.4
20°-30°	749.3	24.8
30°-40°	614.7	20.3
40°-50°	388.5	12.9
50°-60°	220.6	7.3
60°-70°	104.7	3.5
70°-80°	29.3	1.0
80°-90°	2.1	0.1
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°	1663.3	55.0
0°-40°	2278.0	75.4
0°-60°	2887.1	95.5
0°-90°	3023.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3023.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2952	2952	2952	2952	2952	
5°	2860	2860	2860	2868	2865	266
15°	2346	2327	2301	2333	2356	655
25°	1687	1626	1584	1639	1711	774
35°	1046	970	922	986	1057	653
45°	527	485	459	493	546	416
55°	253	242	229	248	258	229
65°	98	103	111	103	95	99
75°	24	26	26	26	24	27
85°	3	3	3	3	3	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2952.1	2952.1	2952.1	2952.1	2952.1
2.5°	2931.0	2928.3	2925.7	2928.3	2931.0
5°	2859.8	2859.8	2859.8	2867.7	2865.1
7.5°	2759.6	2757.0	2754.4	2762.3	2764.9
10°	2638.4	2627.9	2620.0	2633.1	2638.4
12.5°	2496.1	2482.9	2467.1	2485.5	2504.0
15°	2345.8	2327.4	2301.0	2332.7	2356.4
17.5°	2187.7	2153.4	2127.1	2161.3	2198.2
20°	2026.9	1984.7	1947.8	1984.7	2037.4
22.5°	1855.6	1800.2	1763.3	1810.8	1876.7
25°	1686.9	1626.3	1584.1	1639.4	1710.6
27.5°	1526.1	1452.3	1404.9	1468.1	1547.2
30°	1365.3	1286.3	1236.2	1299.4	1386.4
32.5°	1201.9	1125.5	1072.8	1141.3	1225.6
35°	1046.4	970.0	922.5	985.8	1056.9
37.5°	893.5	822.4	785.5	835.5	914.6
40°	756.5	693.2	661.6	706.4	772.3
42.5°	637.9	579.9	553.5	590.4	653.7
45°	527.2	485.0	458.6	492.9	545.6
47.5°	442.8	405.9	384.8	413.8	456.0
50°	371.6	342.6	324.2	347.9	382.2
52.5°	311.0	287.3	271.5	292.6	318.9
55°	253.0	242.5	229.3	247.8	258.3
57.5°	200.3	197.7	197.7	200.3	203.0
60°	160.8	160.8	168.7	163.4	160.8
62.5°	123.9	129.2	142.3	129.2	123.9
65°	97.5	102.8	110.7	102.8	94.9
67.5°	73.8	79.1	84.3	79.1	71.2
70°	55.4	60.6	63.3	60.6	55.4
72.5°	39.5	42.2	42.2	42.2	36.9
75°	23.7	26.4	26.4	26.4	23.7
77.5°	7.9	13.2	13.2	13.2	7.9
80°	5.3	5.3	5.3	5.3	5.3
82.5°	2.6	2.6	2.6	2.6	2.6
85°	2.6	2.6	2.6	2.6	2.6
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)