

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: P238001

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238001
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
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SHALLOW TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3170.2 lumens
Efficiency: N/A
Efficacy: 124.3 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

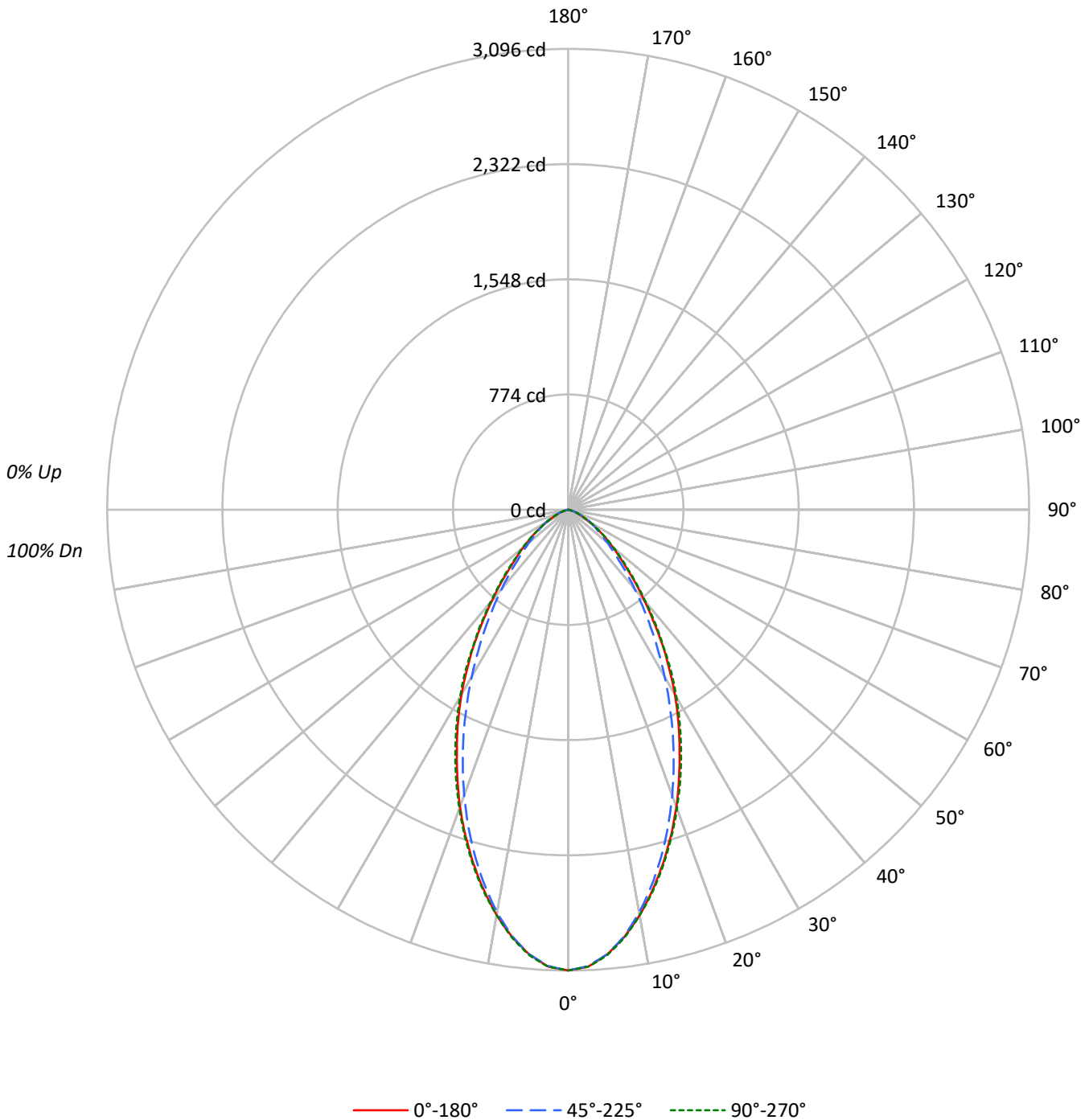
Input Watts (W): 25.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	78	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°	133279	133279	133279
5°	129609	129609	129846
10°	120955	120112	120955
15°	109649	107554	110139
20°	97383	93585	97892
25°	84035	78913	85217
30°	71179	64447	72278
35°	57675	50848	58254
40°	44582	38990	45515
45°	33660	29282	34835
50°	26103	22774	26847
55°	19915	18053	20335
60°	14518	15233	14518
65°	10422	11828	10137
70°	7301	8346	7301
75°	4142	4591	4142
80°	1364	1364	1364
85°	1383	1383	1383



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.7	8.8
10°-20°	679.8	21.4
20°-30°	785.7	24.8
30°-40°	644.6	20.3
40°-50°	407.4	12.9
50°-60°	231.3	7.3
60°-70°	109.8	3.5
70°-80°	30.6	1.0
80°-90°	2.3	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°	1744.2	55.0
0°-40°	2388.8	75.4
0°-60°	3027.4	95.5
0°-90°	3170.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3170.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3096	3096	3096	3096	3096	
5°	2999	2999	2999	3007	3004	279
15°	2460	2440	2413	2446	2471	686
25°	1769	1705	1661	1719	1794	811
35°	1097	1017	967	1034	1108	684
45°	553	509	481	517	572	437
55°	265	254	240	260	271	240
65°	102	108	116	108	100	104
75°	25	28	28	28	25	28
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°	3095.5	3095.5	3095.5	3095.5	3095.5
2.5°	3073.4	3070.7	3067.9	3070.7	3073.4
5°	2998.8	2998.8	2998.8	3007.1	3004.3
7.5°	2893.8	2891.0	2888.3	2896.5	2899.3
10°	2766.6	2755.6	2747.3	2761.1	2766.6
12.5°	2617.4	2603.6	2587.0	2606.3	2625.7
15°	2459.9	2440.5	2412.9	2446.0	2470.9
17.5°	2294.0	2258.1	2230.5	2266.4	2305.1
20°	2125.4	2081.2	2042.5	2081.2	2136.5
22.5°	1945.8	1887.7	1849.0	1898.8	1967.9
25°	1768.9	1705.3	1661.1	1719.1	1793.8
27.5°	1600.3	1522.9	1473.1	1539.5	1622.4
30°	1431.7	1348.8	1296.3	1362.6	1453.8
32.5°	1260.3	1180.2	1124.9	1196.8	1285.2
35°	1097.3	1017.1	967.4	1033.7	1108.3
37.5°	937.0	862.3	823.6	876.2	959.1
40°	793.2	726.9	693.7	740.7	809.8
42.5°	668.9	608.1	580.4	619.1	685.4
45°	552.8	508.6	480.9	516.8	572.1
47.5°	464.3	425.6	403.5	433.9	478.2
50°	389.7	359.3	340.0	364.8	400.8
52.5°	326.1	301.3	284.7	306.8	334.4
55°	265.3	254.3	240.5	259.8	270.9
57.5°	210.1	207.3	207.3	210.1	212.8
60°	168.6	168.6	176.9	171.4	168.6
62.5°	129.9	135.4	149.2	135.4	129.9
65°	102.3	107.8	116.1	107.8	99.5
67.5°	77.4	82.9	88.4	82.9	74.6
70°	58.0	63.6	66.3	63.6	58.0
72.5°	41.5	44.2	44.2	44.2	38.7
75°	24.9	27.6	27.6	27.6	24.9
77.5°	8.3	13.8	13.8	13.8	8.3
80°	5.5	5.5	5.5	5.5	5.5
82.5°	2.8	2.8	2.8	2.8	2.8
85°	2.8	2.8	2.8	2.8	2.8
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)