

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: P238062

Luminaire Tested: **PRS640D010-S6M24-64SMDH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238062
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-8)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS640D010-S6M24-64SMDH
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SHALLOW TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4402.1 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.95 / 1.01
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

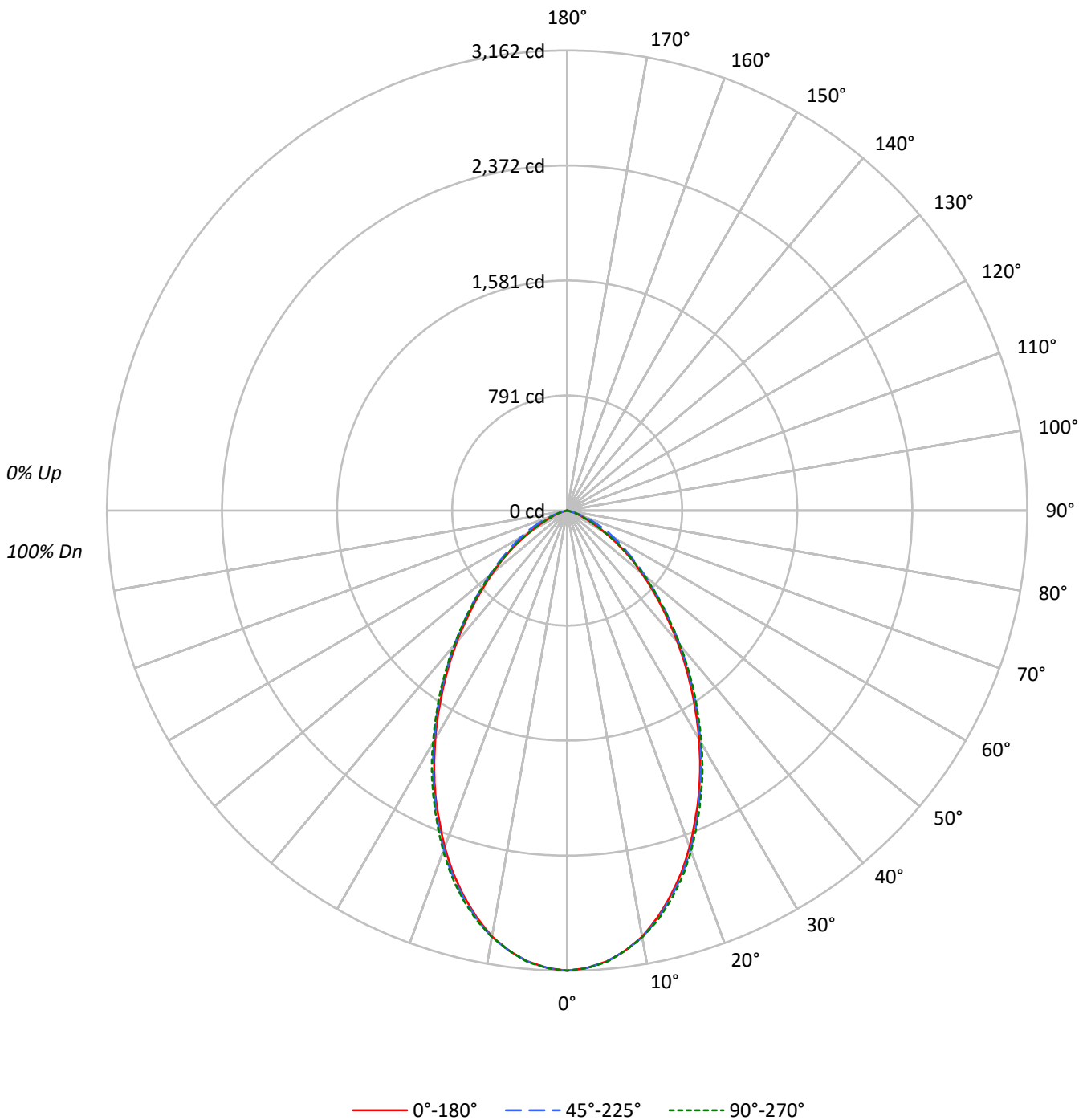
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90					90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80					80			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	72					72			
4	91	81	74	69	89	80	73	68	78	72	68	75	71	67	73	69	66	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52					52			
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48					48			
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44					44			
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	45	42	40					40			
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	136129	136129	136129
5°	134423	134423	134596
10°	129927	130097	130097
15°	122232	122763	123293
20°	112774	113498	114043
25°	101888	102453	103203
30°	90101	90892	91677
35°	77996	79241	79867
40°	66277	67609	67834
45°	54935	56865	56140
50°	44530	46915	45856
55°	35348	38614	35941
60°	25213	31689	25213
65°	16525	24186	16932
70°	10965	14943	11456
75°	5273	6588	5273
80°	0	992	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.6	6.6
10°-20°	770.4	17.5
20°-30°	988.7	22.5
30°-40°	939.8	21.3
40°-50°	717.6	16.3
50°-60°	448.4	10.2
60°-70°	200.3	4.5
70°-80°	44.3	1.0
80°-90°	0.1	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°	2051.7	46.6
0°-40°	2991.5	68.0
0°-60°	4157.4	94.4
0°-90°	4402.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4402.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3162	3162	3162	3162	3162	
5°	3110	3110	3110	3114	3114	292
15°	2742	2746	2754	2762	2766	767
25°	2145	2149	2157	2164	2172	982
35°	1484	1500	1508	1512	1520	928
45°	902	922	934	938	922	699
55°	471	499	514	506	479	423
65°	162	186	237	190	166	170
75°	32	40	40	40	32	36
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°	3161.7	3161.7	3161.7	3161.7	3161.7
2.5°	3145.9	3145.9	3145.9	3145.9	3145.9
5°	3110.2	3110.2	3110.2	3114.2	3114.2
7.5°	3050.9	3050.9	3050.9	3054.8	3050.9
10°	2971.8	2971.8	2975.7	2975.7	2975.7
12.5°	2864.9	2868.9	2872.8	2876.8	2880.7
15°	2742.2	2746.2	2754.1	2762.0	2766.0
17.5°	2607.7	2607.7	2623.5	2635.4	2635.4
20°	2461.3	2465.2	2477.1	2481.1	2489.0
22.5°	2299.1	2310.9	2322.8	2326.8	2330.7
25°	2144.7	2148.7	2156.6	2164.5	2172.4
27.5°	1978.5	1982.5	1994.4	1998.3	2014.1
30°	1812.3	1820.2	1828.2	1836.1	1844.0
32.5°	1646.1	1654.1	1665.9	1669.9	1677.8
35°	1483.9	1499.7	1507.6	1511.6	1519.5
37.5°	1329.6	1345.4	1349.4	1361.2	1361.2
40°	1179.2	1195.0	1202.9	1210.9	1206.9
42.5°	1032.8	1052.6	1060.5	1072.4	1060.5
45°	902.2	922.0	933.9	937.8	922.0
47.5°	779.5	803.3	807.2	811.2	803.3
50°	664.8	688.5	700.4	704.4	684.6
52.5°	569.8	589.6	601.5	597.5	581.7
55°	470.9	498.6	514.4	506.5	478.8
57.5°	379.9	411.5	435.3	415.5	387.8
60°	292.8	328.4	368.0	336.3	292.8
62.5°	217.6	253.3	304.7	253.3	217.6
65°	162.2	186.0	237.4	189.9	166.2
67.5°	118.7	138.5	178.1	138.5	122.7
70°	87.1	102.9	118.7	102.9	91.0
72.5°	59.4	71.2	71.2	71.2	59.4
75°	31.7	39.6	39.6	39.6	31.7
77.5°	4.0	11.9	15.8	11.9	4.0
80°	0.0	0.0	4.0	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)