

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: P238312

Luminaire Tested: **PRS640D010-S6M24-64SNDMB-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238312
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS640D010-S6M24-64SNDMB-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SHALLOW TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3893.3 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.89
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

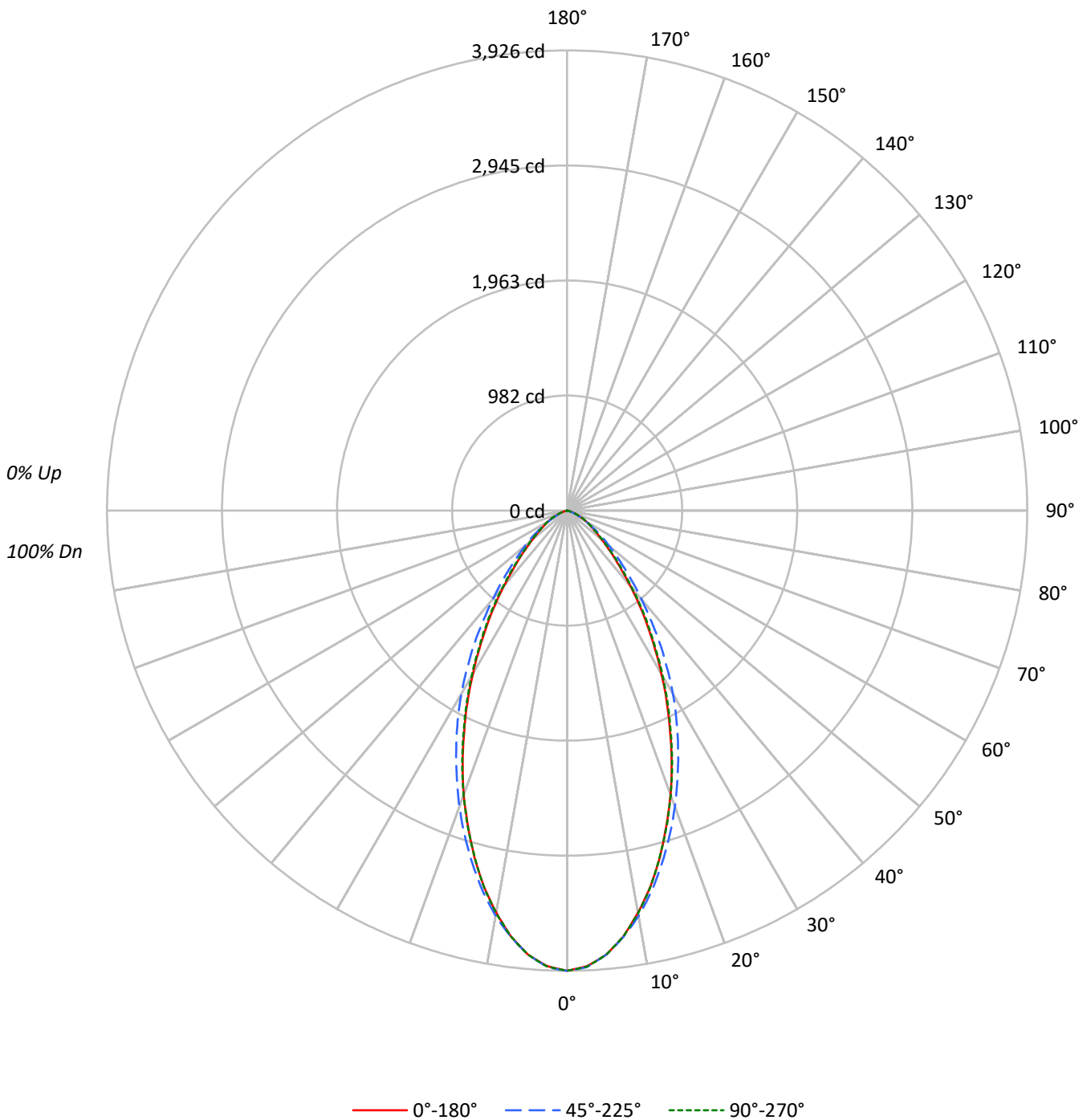
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92					92			
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83					83			
3	99	92	86	82	97	91	85	81	88	83	80	85	82	78	83	80	77	75					75			
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69					69			
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63					63			
6	83	73	66	61	81	72	65	61	70	65	60	69	64	60	67	63	59	58					58			
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53					53			
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	55	51	50					50			
9	70	59	53	48	69	59	52	48	58	52	48	57	52	48	56	51	48	46					46			
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43					43			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	169054	169054	169054
5°	164453	164453	164453
10°	152294	153544	152451
15°	136322	139028	136162
20°	118190	123102	118355
25°	98781	106420	99460
30°	79929	89698	80998
35°	62532	72298	63846
40°	46988	55222	48196
45°	34592	41551	35895
50°	25849	31113	27041
55°	20117	22797	20650
60°	16309	15689	16611
65°	12011	10555	12378
70°	8094	6748	8094
75°	3560	2978	3560
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.4	9.1
10°-20°	860.6	22.1
20°-30°	987.9	25.4
30°-40°	799.8	20.5
40°-50°	490.2	12.6
50°-60°	263.1	6.8
60°-70°	113.7	2.9
70°-80°	24.6	0.6
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°	2201.9	56.6
0°-40°	3001.7	77.1
0°-60°	3755.0	96.4
0°-90°	3893.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3893.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3926	3926	3926	3926	3926	
5°	3805	3805	3805	3805	3805	353
15°	3058	3087	3119	3090	3055	851
25°	2079	2151	2240	2154	2094	952
35°	1190	1265	1376	1279	1215	746
45°	568	611	682	618	590	447
55°	268	289	304	293	275	246
65°	118	111	104	111	122	121
75°	21	21	18	21	21	26
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°	3926.4	3926.4	3926.4	3926.4	3926.4
2.5°	3890.7	3894.3	3897.8	3894.3	3894.3
5°	3805.0	3805.0	3805.0	3805.0	3805.0
7.5°	3665.6	3672.8	3669.2	3669.2	3665.6
10°	3483.4	3501.3	3512.0	3501.3	3487.0
12.5°	3283.3	3304.8	3326.2	3301.2	3286.9
15°	3058.3	3086.8	3119.0	3090.4	3054.7
17.5°	2815.3	2861.8	2908.2	2861.8	2822.5
20°	2579.5	2633.1	2686.7	2629.5	2583.1
22.5°	2329.4	2379.4	2461.6	2386.6	2340.1
25°	2079.3	2150.8	2240.1	2154.4	2093.6
27.5°	1840.0	1915.0	2022.2	1929.3	1857.8
30°	1607.7	1689.9	1804.2	1704.2	1629.2
32.5°	1389.8	1472.0	1582.7	1486.3	1411.2
35°	1189.7	1264.7	1375.5	1279.0	1214.7
37.5°	1007.5	1068.2	1164.7	1082.5	1032.5
40°	836.0	893.2	982.5	903.9	857.5
42.5°	686.0	739.6	825.3	753.8	714.5
45°	568.1	610.9	682.4	618.1	589.5
47.5°	468.0	507.3	564.5	510.9	485.9
50°	385.9	418.0	464.5	425.2	403.7
52.5°	321.5	350.1	385.9	353.7	332.3
55°	268.0	289.4	303.7	293.0	275.1
57.5°	225.1	232.2	235.8	235.8	232.2
60°	189.4	182.2	182.2	185.8	192.9
62.5°	157.2	142.9	139.3	146.5	160.8
65°	117.9	110.8	103.6	110.8	121.5
67.5°	89.3	78.6	75.0	82.2	92.9
70°	64.3	57.2	53.6	57.2	64.3
72.5°	39.3	39.3	32.2	39.3	39.3
75°	21.4	21.4	17.9	21.4	21.4
77.5°	7.1	7.1	3.6	7.1	10.7
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)