

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: P238322

Luminaire Tested: **PRS640D010-S6M24-64SNDMB-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238322
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-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SHALLOW TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4115.0 lumens
Efficiency: N/A
Efficacy: 108.3 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

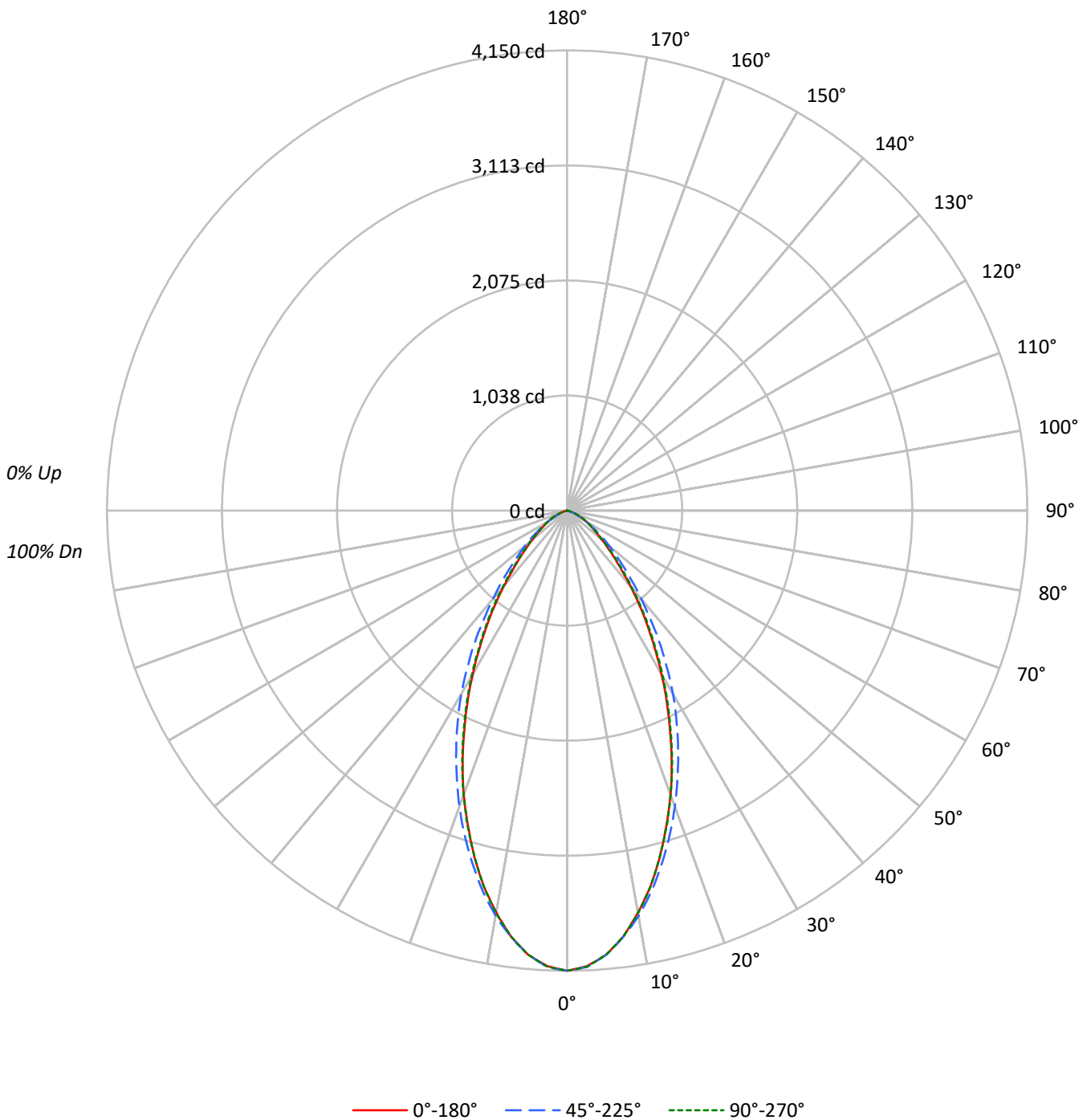
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83
3	99	92	86	82	97	91	85	81	88	83	80	85	82	78	83	80	77	75
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63
6	83	73	66	61	81	72	65	61	70	65	60	69	64	60	67	63	59	58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	55	51	50
9	70	59	53	48	69	59	52	48	58	52	48	57	52	48	56	51	48	46
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	178681	178681	178681
5°	173814	173814	173814
10°	160968	162288	161134
15°	144083	146944	143913
20°	124921	130112	125095
25°	104405	112482	105123
30°	84483	94809	85607
35°	66096	76414	67483
40°	49663	58369	50939
45°	36558	43920	37940
50°	27316	32882	28582
55°	21258	24096	21829
60°	17231	16585	17558
65°	12694	11156	13081
70°	8560	7125	8560
75°	3776	3144	3776
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.6	9.1
10°-20°	909.6	22.1
20°-30°	1044.2	25.4
30°-40°	845.3	20.5
40°-50°	518.2	12.6
50°-60°	278.1	6.8
60°-70°	120.2	2.9
70°-80°	26.0	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°	2327.3	56.6
0°-40°	3172.6	77.1
0°-60°	3968.8	96.4
0°-90°	4115.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4115.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4150	4150	4150	4150	4150	
5°	4022	4022	4022	4022	4022	373
15°	3232	3263	3297	3266	3229	899
25°	2198	2273	2368	2277	2213	1006
35°	1258	1337	1454	1352	1284	788
45°	600	646	721	653	623	472
55°	283	306	321	310	291	260
65°	125	117	110	117	128	128
75°	23	23	19	23	23	28
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°	4150.0	4150.0	4150.0	4150.0	4150.0
2.5°	4112.3	4116.1	4119.8	4116.1	4116.1
5°	4021.6	4021.6	4021.6	4021.6	4021.6
7.5°	3874.4	3881.9	3878.2	3878.2	3874.4
10°	3681.8	3700.7	3712.0	3700.7	3685.6
12.5°	3470.3	3493.0	3515.6	3489.2	3474.1
15°	3232.4	3262.6	3296.6	3266.4	3228.6
17.5°	2975.6	3024.7	3073.8	3024.7	2983.2
20°	2726.4	2783.1	2839.7	2779.3	2730.2
22.5°	2462.1	2514.9	2601.8	2522.5	2473.4
25°	2197.7	2273.3	2367.7	2277.0	2212.8
27.5°	1944.7	2024.0	2137.3	2039.1	1963.6
30°	1699.3	1786.1	1907.0	1801.2	1721.9
32.5°	1468.9	1555.8	1672.9	1570.9	1491.6
35°	1257.5	1336.8	1453.8	1351.9	1283.9
37.5°	1064.9	1129.1	1231.0	1144.2	1091.3
40°	883.6	944.0	1038.5	955.4	906.3
42.5°	725.0	781.7	872.3	796.8	755.2
45°	600.4	645.7	721.3	653.3	623.1
47.5°	494.7	536.2	596.6	540.0	513.6
50°	407.8	441.8	490.9	449.4	426.7
52.5°	339.9	370.1	407.8	373.8	351.2
55°	283.2	305.9	321.0	309.6	290.8
57.5°	237.9	245.5	249.2	249.2	245.5
60°	200.1	192.6	192.6	196.4	203.9
62.5°	166.2	151.0	147.3	154.8	169.9
65°	124.6	117.1	109.5	117.1	128.4
67.5°	94.4	83.1	79.3	86.9	98.2
70°	68.0	60.4	56.6	60.4	68.0
72.5°	41.5	41.5	34.0	41.5	41.5
75°	22.7	22.7	18.9	22.7	22.7
77.5°	7.6	7.6	3.8	7.6	11.3
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)