

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: P238267

Luminaire Tested: **PRS640D010-S6M24-61SNDC-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238267
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-22)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS640D010-S6M24-61SNDC-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, DEEP TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3929.0 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.8 / 0.81
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

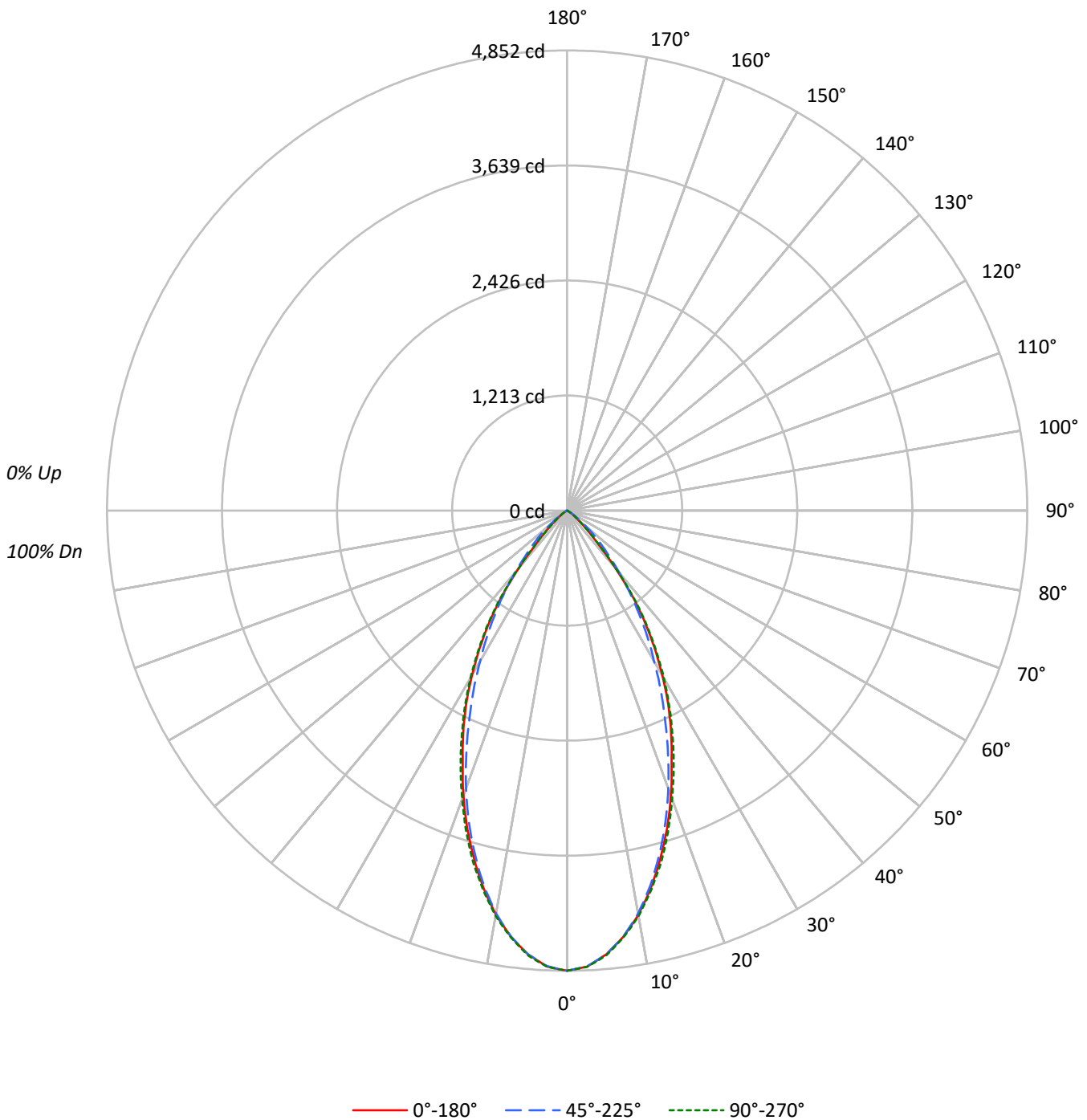
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93					93			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87					87			
3	102	96	91	86	100	94	90	86	92	88	84	89	86	83	87	84	82	80					80			
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	79	76	74					74			
5	92	83	77	73	90	82	77	73	80	76	72	79	75	71	77	74	71	69					69			
6	87	78	72	67	86	77	71	67	76	71	67	74	70	66	73	69	66	64					64			
7	83	73	67	63	81	72	67	63	71	66	62	70	65	62	69	65	62	60					60			
8	79	69	63	59	77	68	62	58	67	62	58	66	61	58	65	61	58	56					56			
9	75	65	59	55	74	64	59	55	63	58	55	63	58	54	62	57	54	53					53			
10	71	61	55	52	70	61	55	51	60	55	51	59	55	51	59	54	51	50					50			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	208902	208902	208902
5°	203065	203065	203528
10°	189180	188555	189805
15°	169325	167417	170916
20°	146570	142808	148206
25°	123308	116182	125004
30°	99756	91056	101531
35°	74311	68871	76188
40°	44548	48162	44751
45°	20654	31084	20867
50°	10041	17456	10041
55°	5360	7236	5360
60°	1843	3074	1843
65°	0	1090	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.7	11.1
10°-20°	1052.1	26.8
20°-30°	1156.4	29.4
30°-40°	848.7	21.6
40°-50°	345.0	8.8
50°-60°	82.9	2.1
60°-70°	7.1	0.2
70°-80°	0.0	0.0
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°	2645.2	67.3
0°-40°	3493.9	88.9
0°-60°	3921.9	99.8
0°-90°	3929.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3929.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4852	4852	4852	4852	4852	
5°	4698	4702	4698	4709	4709	437
15°	3799	3784	3756	3792	3834	1057
25°	2596	2503	2446	2538	2631	1186
35°	1414	1346	1310	1371	1450	870
45°	339	403	510	411	343	294
55°	71	86	96	86	71	67
65°	0	0	11	0	0	3
75°	0	0	0	0	0	0
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°	4851.9	4851.9	4851.9	4851.9	4851.9
2.5°	4812.7	4812.7	4809.1	4812.7	4816.2
5°	4698.4	4702.0	4698.4	4709.1	4709.1
7.5°	4534.2	4527.0	4530.6	4544.9	4541.3
10°	4327.1	4316.4	4312.8	4327.1	4341.4
12.5°	4077.2	4059.3	4052.2	4073.6	4095.0
15°	3798.7	3784.4	3755.9	3791.6	3834.4
17.5°	3506.0	3477.4	3445.3	3491.7	3541.7
20°	3198.9	3148.9	3116.8	3173.9	3234.6
22.5°	2877.6	2824.0	2781.2	2859.7	2934.7
25°	2595.6	2502.7	2445.6	2538.4	2631.3
27.5°	2306.4	2206.4	2138.6	2235.0	2334.9
30°	2006.5	1906.5	1831.5	1942.2	2042.2
32.5°	1710.1	1620.9	1570.9	1649.4	1735.1
35°	1413.8	1346.0	1310.3	1371.0	1449.5
37.5°	1110.3	1088.9	1078.2	1106.8	1142.5
40°	792.6	846.1	856.9	860.4	796.2
42.5°	524.8	599.8	660.5	610.5	532.0
45°	339.2	403.4	510.5	410.6	342.7
47.5°	217.8	267.8	382.0	271.3	221.4
50°	149.9	178.5	260.6	178.5	149.9
52.5°	103.5	121.4	164.2	121.4	107.1
55°	71.4	85.7	96.4	85.7	71.4
57.5°	42.8	53.6	57.1	53.6	42.8
60°	21.4	32.1	35.7	32.1	21.4
62.5°	0.0	10.7	21.4	10.7	0.0
65°	0.0	0.0	10.7	0.0	0.0
67.5°	0.0	0.0	3.6	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
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)