

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: P238132

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238132
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-13)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS640D010-S6M24-61SNDMB-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, DEEP 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: 3443.3 lumens
Efficiency: N/A
Efficacy: 90.6 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

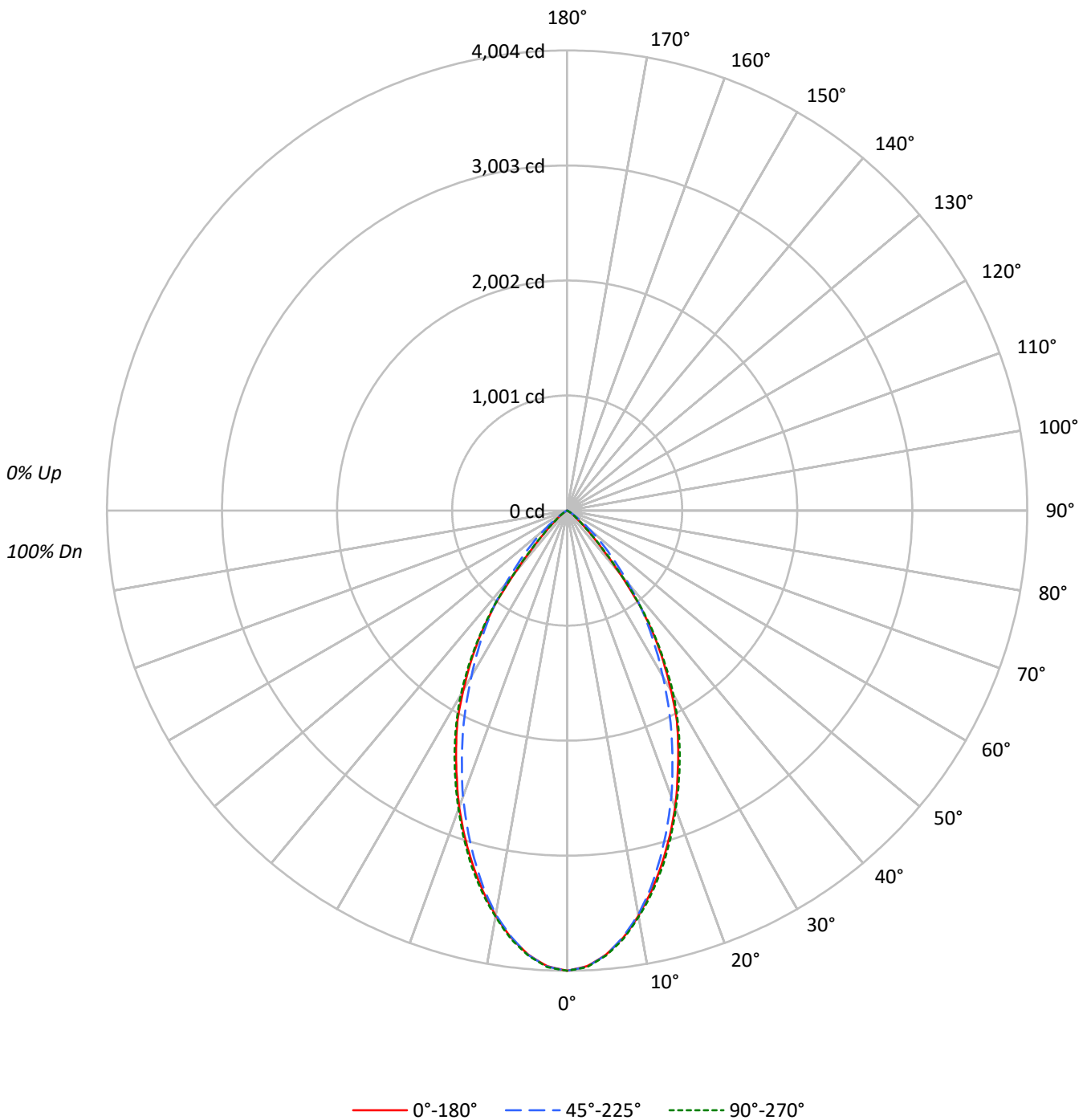
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	101	101	99	98	97	96	95	93					93			
2	108	103	98	95	105	101	97	94	98	94	92	95	92	90	92	90	88	86					86			
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	86	84	81	80					80			
4	96	89	83	79	95	87	82	78	85	81	77	83	79	76	81	78	75	74					74			
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	68					68			
6	87	77	71	67	85	77	71	66	75	70	66	74	69	66	72	68	65	64					64			
7	82	72	66	62	81	72	66	62	70	65	61	69	65	61	68	64	61	59					59			
8	78	68	62	58	77	67	62	58	66	61	57	65	61	57	64	60	57	55					55			
9	74	64	58	54	73	64	58	54	63	57	54	62	57	53	61	56	53	52					52			
10	70	60	55	51	69	60	54	50	59	54	50	58	54	50	58	53	50	49					49			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	172395	172395	172395
5°	167647	167802	167958
10°	156469	156001	156937
15°	141858	139469	142973
20°	125851	121434	126671
25°	108595	102149	110125
30°	89852	82748	91985
35°	68524	64771	69838
40°	39748	46577	40951
45°	17615	30445	18054
50°	8373	16987	8373
55°	4556	6974	4556
60°	1541	2764	1541
65°	0	723	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°	360.7	10.5
10°-20°	880.8	25.6
20°-30°	1015.5	29.5
30°-40°	783.0	22.7
40°-50°	321.3	9.3
50°-60°	75.7	2.2
60°-70°	6.3	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°	2257.0	65.5
0°-40°	3040.0	88.3
0°-60°	3437.0	99.8
0°-90°	3443.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3443.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4004	4004	4004	4004	4004	
5°	3879	3879	3882	3886	3886	361
15°	3182	3157	3129	3161	3208	888
25°	2286	2207	2150	2229	2318	1045
35°	1304	1239	1232	1268	1329	794
45°	289	375	500	386	296	254
55°	61	79	93	79	61	56
65°	0	0	7	0	0	2
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°	4004.0	4004.0	4004.0	4004.0	4004.0
2.5°	3968.2	3971.8	3971.8	3975.4	3975.4
5°	3878.9	3878.9	3882.5	3886.1	3886.1
7.5°	3746.8	3743.2	3739.6	3746.8	3757.5
10°	3578.9	3568.2	3568.2	3575.3	3589.6
12.5°	3389.6	3371.8	3361.0	3375.3	3407.5
15°	3182.5	3157.4	3128.9	3161.0	3207.5
17.5°	2968.1	2932.4	2889.6	2936.0	2989.6
20°	2746.7	2689.5	2650.3	2700.3	2764.6
22.5°	2511.0	2450.2	2393.1	2468.1	2539.5
25°	2285.9	2207.4	2150.2	2228.8	2318.1
27.5°	2068.1	1964.5	1903.8	1989.5	2089.5
30°	1807.3	1732.3	1664.4	1753.7	1850.2
32.5°	1557.3	1478.7	1446.6	1503.7	1589.4
35°	1303.7	1239.4	1232.3	1268.0	1328.7
37.5°	1021.5	1018.0	1039.4	1032.2	1043.0
40°	707.2	792.9	828.7	800.1	728.6
42.5°	457.2	557.2	646.5	571.5	482.2
45°	289.3	375.0	500.0	385.8	296.5
47.5°	182.2	242.9	375.0	250.0	185.7
50°	125.0	160.7	253.6	160.7	125.0
52.5°	85.7	110.7	157.2	110.7	89.3
55°	60.7	78.6	92.9	78.6	60.7
57.5°	35.7	50.0	53.6	50.0	39.3
60°	17.9	28.6	32.1	28.6	17.9
62.5°	0.0	10.7	17.9	10.7	0.0
65°	0.0	0.0	7.1	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)