

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: P238202

Luminaire Tested: **PRS640D010-S6M24-61SMDMW-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238202
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-17)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS640D010-S6M24-61SMDMW-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, DEEP TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4024.4 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.97 / 1.03
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

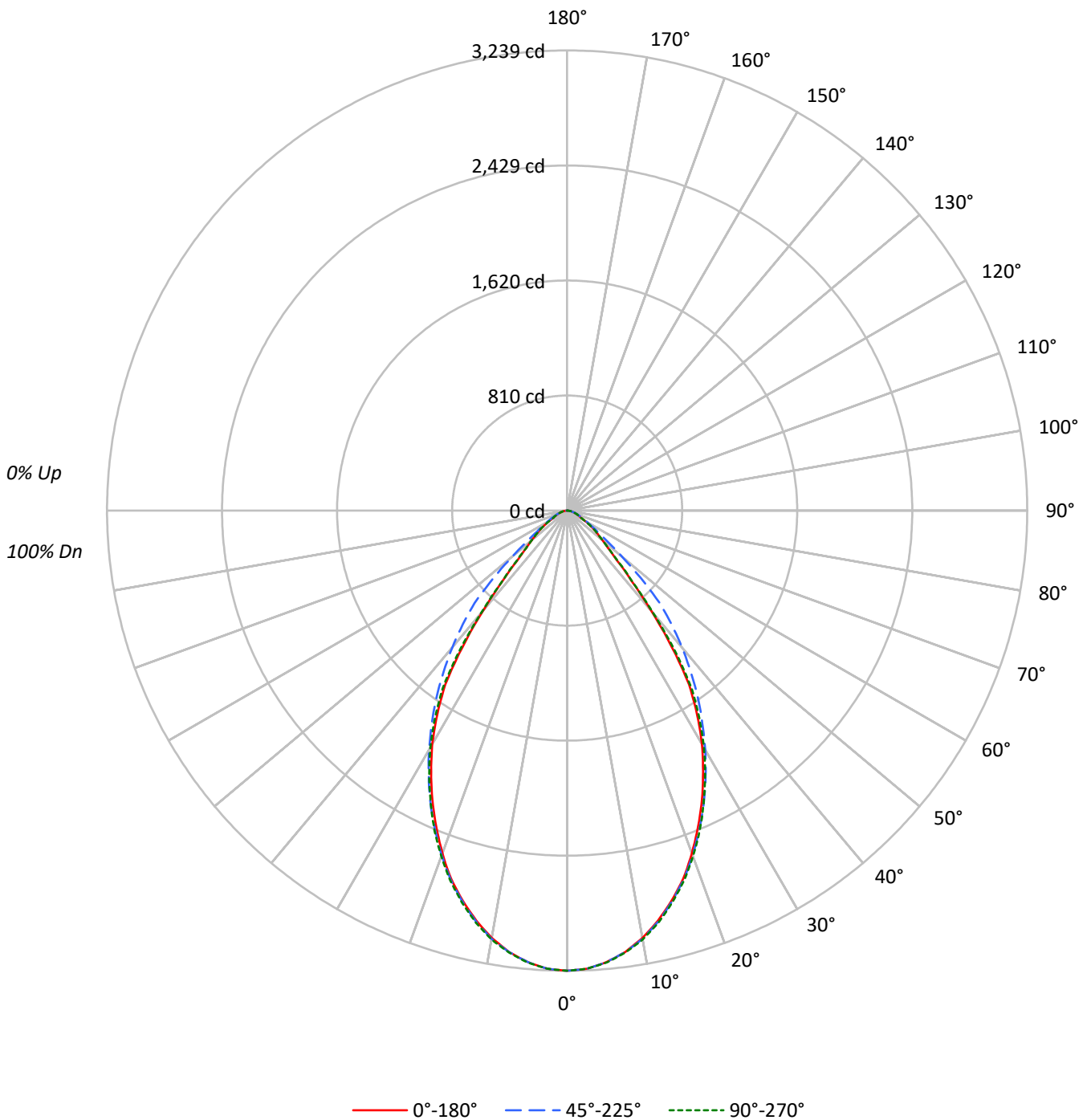
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91					91			
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82					82			
3	99	91	85	80	97	90	84	80	87	82	79	84	81	77	82	79	76	74					74			
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67					67			
5	87	77	70	65	85	76	70	65	74	69	64	73	68	64	71	67	63	61					61			
6	82	71	64	59	80	71	64	59	69	63	59	67	62	58	66	61	58	56					56			
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52					52			
8	73	62	55	50	71	61	55	50	60	54	50	59	53	49	58	53	49	48					48			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44					44			
10	65	54	47	43	64	54	47	43	53	47	43	52	46	43	51	46	43	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	139453	139453	139453
5°	137864	137864	138028
10°	133516	133848	134014
15°	126703	127042	127376
20°	117617	118309	118653
25°	106705	108139	107959
30°	94401	96654	95714
35°	78574	84329	80361
40°	51771	70656	52833
45°	30341	56086	31261
50°	21743	33377	21743
55°	17002	19832	17288
60°	12348	14303	12348
65°	9994	11156	9994
70°	8548	9026	9026
75°	7536	7536	7536
80°	6546	6546	6546
85°	5582	5582	5582



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.5	7.5
10°-20°	797.9	19.8
20°-30°	1037.8	25.8
30°-40°	958.3	23.8
40°-50°	530.6	13.2
50°-60°	229.5	5.7
60°-70°	105.5	2.6
70°-80°	50.8	1.3
80°-90°	13.6	0.3
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°	2136.1	53.1
0°-40°	3094.4	76.9
0°-60°	3854.5	95.8
0°-90°	4024.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4024.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3239	3239	3239	3239	3239	
5°	3190	3194	3190	3194	3194	300
15°	2842	2846	2850	2858	2858	796
25°	2246	2254	2276	2280	2272	1028
35°	1495	1552	1604	1570	1529	902
45°	498	612	921	627	513	416
55°	226	253	264	253	230	203
65°	98	102	110	102	98	98
75°	45	49	45	49	45	48
85°	11	11	11	11	11	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3238.9	3238.9	3238.9	3238.9	3238.9
2.5°	3227.6	3227.6	3227.6	3227.6	3227.6
5°	3189.8	3193.6	3189.8	3193.6	3193.6
7.5°	3133.2	3137.0	3133.2	3137.0	3137.0
10°	3053.9	3053.9	3061.5	3061.5	3065.3
12.5°	2955.8	2959.6	2963.3	2967.1	2970.9
15°	2842.5	2846.3	2850.1	2857.6	2857.6
17.5°	2718.0	2714.2	2725.5	2725.5	2733.1
20°	2567.0	2574.5	2582.1	2585.8	2589.6
22.5°	2408.4	2416.0	2431.1	2434.8	2438.6
25°	2246.1	2253.6	2276.3	2280.1	2272.5
27.5°	2072.5	2091.3	2110.2	2106.4	2102.6
30°	1898.8	1910.1	1944.1	1932.8	1925.2
32.5°	1702.5	1740.3	1770.5	1755.4	1732.7
35°	1494.9	1551.5	1604.4	1570.4	1528.9
37.5°	1211.8	1359.0	1426.9	1374.1	1249.5
40°	921.1	1094.7	1257.1	1113.6	940.0
42.5°	671.9	830.5	1087.2	849.4	683.3
45°	498.3	611.5	921.1	626.6	513.4
47.5°	388.8	468.1	702.1	468.1	392.6
50°	324.6	366.2	498.3	369.9	324.6
52.5°	271.8	302.0	354.8	302.0	271.8
55°	226.5	252.9	264.2	252.9	230.3
57.5°	181.2	207.6	203.8	207.6	185.0
60°	143.4	162.3	166.1	162.3	143.4
62.5°	109.5	124.6	135.9	124.6	109.5
65°	98.1	101.9	109.5	101.9	98.1
67.5°	83.0	86.8	86.8	86.8	83.0
70°	67.9	71.7	71.7	71.7	71.7
72.5°	56.6	60.4	60.4	60.4	56.6
75°	45.3	49.1	45.3	49.1	45.3
77.5°	34.0	37.7	37.7	37.7	37.7
80°	26.4	26.4	26.4	26.4	26.4
82.5°	18.9	18.9	18.9	18.9	18.9
85°	11.3	11.3	11.3	11.3	11.3
87.5°	7.5	7.5	3.8	7.5	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)