

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: P238012

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238012
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS640D010-S6M24-64SMDMW-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SHALLOW TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4036.2 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.95 / 1.01
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

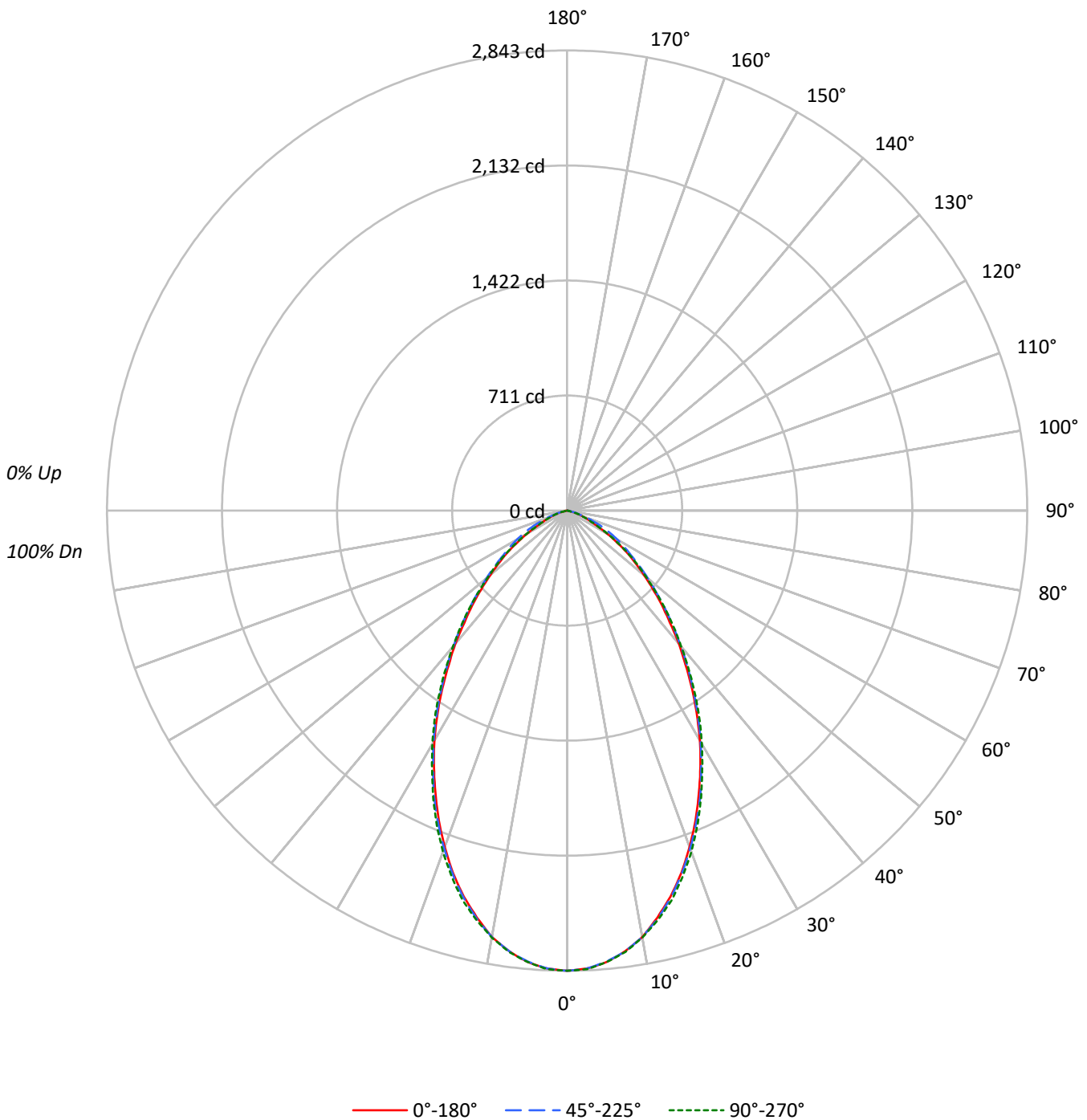
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90					90			
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80					80			
3	97	89	82	77	95	87	81	76	84	79	75	82	78	74	79	76	73	71					71			
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63					63			
5	84	74	66	61	82	73	66	60	71	65	60	69	64	59	67	62	59	57					57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52					52			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	52	49	47					47			
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39					39			
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	122407	122407	122407
5°	121021	120865	121021
10°	116955	116955	117112
15°	110005	110326	111120
20°	101296	101787	102767
25°	91455	92472	92980
30°	81500	82037	82743
35°	70774	71525	72272
40°	60421	61427	61629
45°	50453	51976	51976
50°	41623	43539	42581
55°	33509	36196	34320
60°	24602	30759	25222
65°	16739	24379	17105
70°	12135	15736	12135
75°	7137	8318	6538
80°	1760	2653	1760
85°	1778	1778	1778



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.3	6.5
10°-20°	692.9	17.2
20°-30°	889.7	22.0
30°-40°	850.1	21.1
40°-50°	658.4	16.3
50°-60°	423.4	10.5
60°-70°	200.7	5.0
70°-80°	53.7	1.3
80°-90°	4.0	0.1
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°	1845.9	45.7
0°-40°	2696.0	66.8
0°-60°	3777.8	93.6
0°-90°	4036.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4036.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2843	2843	2843	2843	2843	
5°	2800	2800	2796	2800	2800	263
15°	2468	2472	2475	2486	2493	690
25°	1925	1929	1946	1950	1957	884
35°	1346	1350	1361	1368	1375	840
45°	829	846	854	861	854	641
55°	446	471	482	479	457	398
65°	164	189	239	189	168	172
75°	43	50	50	50	39	46
85°	4	4	4	4	4	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2843.0	2843.0	2843.0	2843.0	2843.0
2.5°	2832.2	2832.2	2832.2	2832.2	2835.8
5°	2800.1	2800.1	2796.5	2800.1	2800.1
7.5°	2746.5	2746.5	2746.5	2750.1	2750.1
10°	2675.1	2675.1	2675.1	2678.7	2678.7
12.5°	2575.1	2578.7	2582.2	2589.4	2589.4
15°	2467.9	2471.5	2475.1	2485.8	2492.9
17.5°	2346.5	2350.1	2353.7	2367.9	2371.5
20°	2210.8	2210.8	2221.5	2239.4	2242.9
22.5°	2071.5	2075.1	2085.8	2092.9	2103.6
25°	1925.1	1928.6	1946.5	1950.1	1957.2
27.5°	1782.2	1782.2	1792.9	1800.1	1807.2
30°	1639.3	1639.3	1650.1	1653.6	1664.3
32.5°	1489.3	1492.9	1503.6	1510.8	1521.5
35°	1346.5	1350.0	1360.8	1367.9	1375.0
37.5°	1200.0	1217.9	1225.0	1232.2	1232.2
40°	1075.0	1085.8	1092.9	1103.6	1096.5
42.5°	939.3	964.3	967.9	978.6	971.5
45°	828.6	846.5	853.6	860.7	853.6
47.5°	717.9	739.3	746.5	750.0	739.3
50°	621.4	639.3	650.0	650.0	635.7
52.5°	528.6	550.0	560.7	560.7	546.4
55°	446.4	471.4	482.2	478.6	457.2
57.5°	360.7	392.9	417.9	400.0	371.4
60°	285.7	321.4	357.2	325.0	292.9
62.5°	214.3	250.0	296.4	253.6	217.9
65°	164.3	189.3	239.3	189.3	167.9
67.5°	128.6	142.9	178.6	142.9	128.6
70°	96.4	107.1	125.0	107.1	96.4
72.5°	67.9	78.6	82.1	78.6	67.9
75°	42.9	50.0	50.0	50.0	39.3
77.5°	14.3	21.4	28.6	21.4	14.3
80°	7.1	7.1	10.7	7.1	7.1
82.5°	7.1	7.1	7.1	7.1	7.1
85°	3.6	3.6	3.6	3.6	3.6
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)