

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: P237977

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P237977
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-2)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS640D010-S6M24-64SMDMB-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM 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: 4020.6 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.94 / 1
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

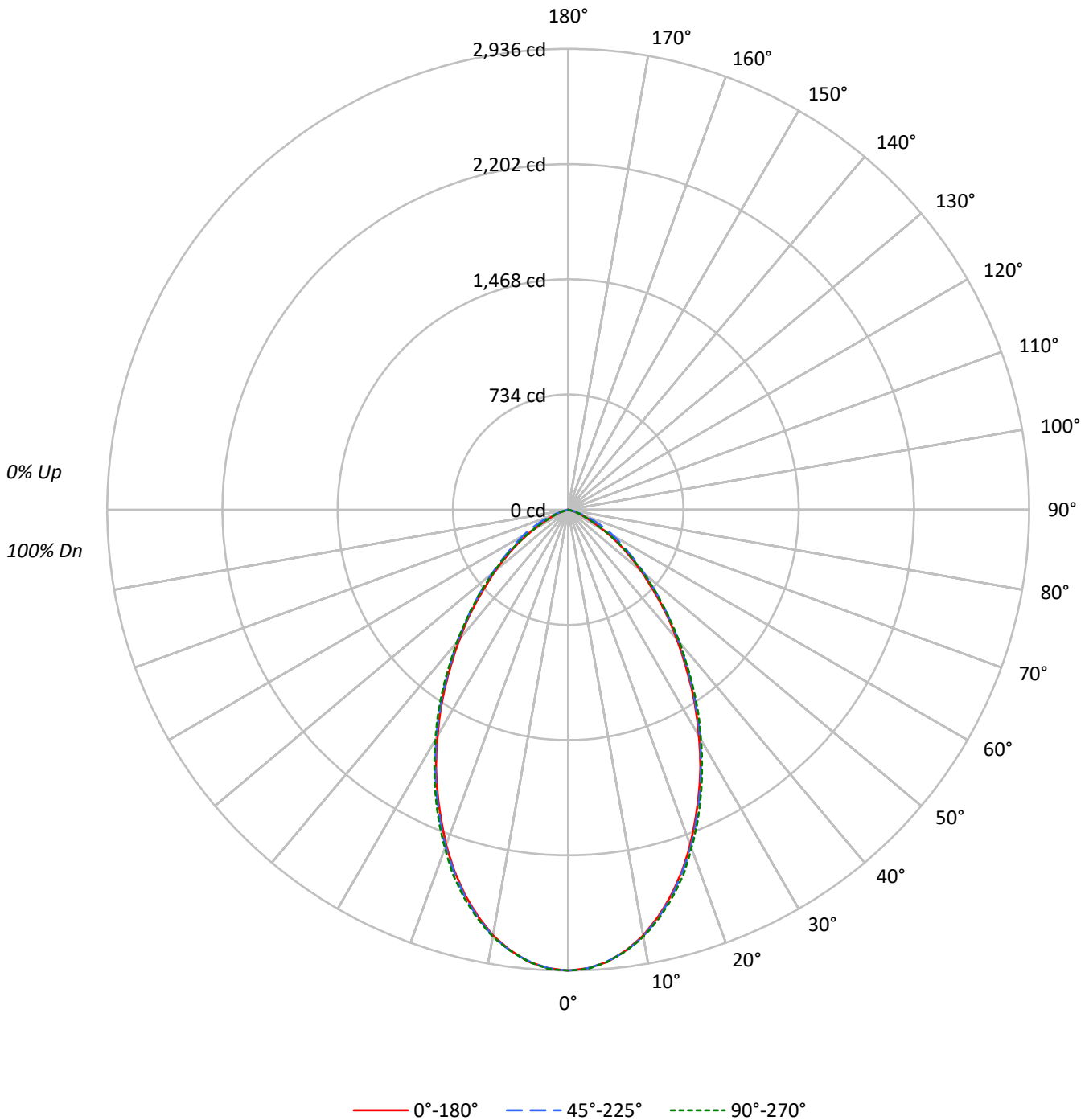
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80					80			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72					72			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64					64			
5	85	74	67	62	83	73	67	62	71	66	61	70	64	60	68	63	60	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	56	51	73	62	55	51	61	55	50	60	54	50	58	53	50	48					48			
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46	44					44			
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	126411	126411	126411
5°	124936	124772	124936
10°	120439	120606	120772
15°	113206	113545	114048
20°	104091	104609	105127
25°	93764	94301	95018
30°	82738	83489	84051
35°	71404	72198	72992
40°	60449	61511	61932
45°	49863	51470	51239
50°	40444	42467	41456
55°	31730	34560	32578
60°	22096	28598	22751
65°	14222	21914	14222
70°	9504	12828	9504
75°	3760	5656	3760
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.7	6.8
10°-20°	712.4	17.7
20°-30°	909.1	22.6
30°-40°	859.3	21.4
40°-50°	652.6	16.2
50°-60°	403.1	10.0
60°-70°	175.9	4.4
70°-80°	36.7	0.9
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°	1893.1	47.1
0°-40°	2752.4	68.5
0°-60°	3808.0	94.7
0°-90°	4020.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4020.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2936	2936	2936	2936	2936	
5°	2891	2891	2887	2891	2891	271
15°	2540	2540	2547	2555	2559	710
25°	1974	1974	1985	1992	2000	904
35°	1358	1370	1374	1385	1389	849
45°	819	842	845	857	842	635
55°	423	449	460	457	434	377
65°	140	162	215	166	140	146
75°	23	34	34	34	23	29
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°	2936.0	2936.0	2936.0	2936.0	2936.0
2.5°	2924.6	2924.6	2924.6	2924.6	2928.4
5°	2890.7	2890.7	2886.9	2890.7	2890.7
7.5°	2830.3	2834.1	2834.1	2834.1	2834.1
10°	2754.8	2754.8	2758.6	2762.4	2762.4
12.5°	2652.9	2656.7	2660.5	2668.0	2668.0
15°	2539.7	2539.7	2547.3	2554.8	2558.6
17.5°	2411.4	2411.4	2419.0	2426.5	2437.8
20°	2271.8	2271.8	2283.1	2294.4	2294.4
22.5°	2120.8	2120.8	2135.9	2139.7	2151.0
25°	1973.7	1973.7	1985.0	1992.5	2000.1
27.5°	1822.7	1818.9	1830.3	1837.8	1845.4
30°	1664.2	1664.2	1679.3	1679.3	1690.6
32.5°	1513.3	1513.3	1524.6	1532.1	1543.5
35°	1358.5	1369.9	1373.6	1385.0	1388.7
37.5°	1211.4	1230.2	1230.2	1245.3	1237.8
40°	1075.5	1086.8	1094.4	1101.9	1101.9
42.5°	947.2	962.3	962.3	973.6	969.8
45°	818.9	841.5	845.3	856.6	841.5
47.5°	701.9	728.3	732.1	739.6	732.1
50°	603.8	622.7	634.0	634.0	618.9
52.5°	505.7	528.3	539.6	539.6	520.8
55°	422.7	449.1	460.4	456.6	434.0
57.5°	335.9	366.1	392.5	377.4	347.2
60°	256.6	294.4	332.1	301.9	264.2
62.5°	184.9	222.6	271.7	222.6	192.5
65°	139.6	162.3	215.1	166.0	139.6
67.5°	101.9	117.0	158.5	120.8	101.9
70°	75.5	86.8	101.9	86.8	75.5
72.5°	49.1	60.4	60.4	60.4	49.1
75°	22.6	34.0	34.0	34.0	22.6
77.5°	0.0	7.5	15.1	7.5	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)