

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: P238107

Luminaire Tested: **PRS640D010-S6M24-64SMDC**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238107
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-11)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS640D010-S6M24-64SMDC
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SHALLOW TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4425.9 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.96 / 1.03
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

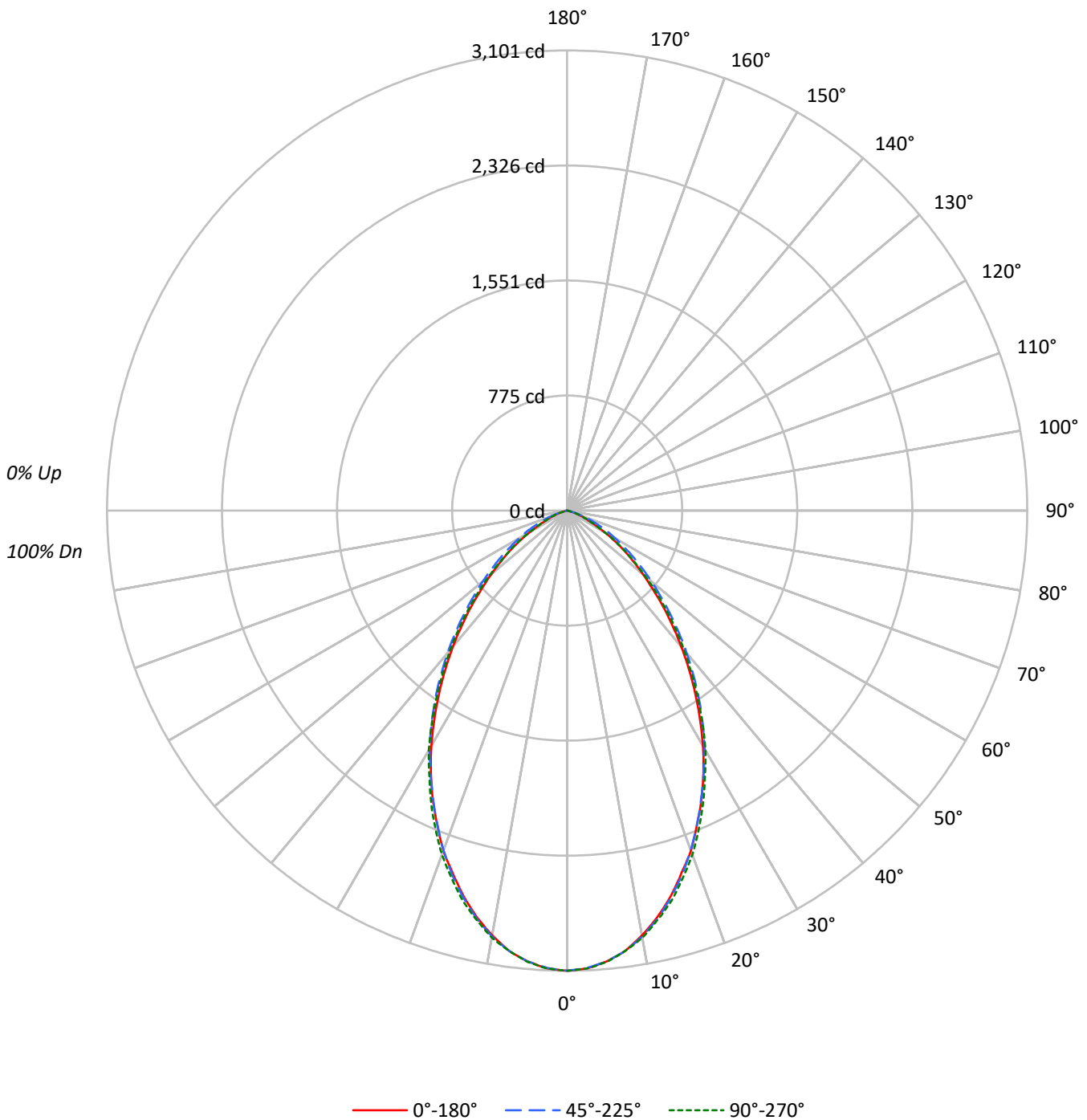
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80					80			
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	71					71			
4	91	81	74	69	89	80	73	68	77	72	67	75	70	66	73	69	66	64					64			
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57					57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52					52			
7	74	63	55	50	72	62	55	50	60	54	50	59	53	49	58	53	49	47					47			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43					43			
9	66	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40					40			
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	133516	133516	133516
5°	131800	131800	131973
10°	127089	127439	127784
15°	120044	120396	121278
20°	111780	111596	113049
25°	101788	101598	103104
30°	90966	92149	92736
35°	79105	81391	80561
40°	67221	70341	68784
45°	55708	59562	57151
50°	44564	49607	45890
55°	35078	40730	35671
60°	24895	32059	25239
65°	16138	24206	16545
70°	10965	14955	10965
75°	5273	6588	5273
80°	0	992	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.0	6.5
10°-20°	756.9	17.1
20°-30°	985.2	22.3
30°-40°	955.6	21.6
40°-50°	738.6	16.7
50°-60°	456.8	10.3
60°-70°	201.4	4.6
70°-80°	44.2	1.0
80°-90°	0.1	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°	2029.1	45.8
0°-40°	2984.7	67.4
0°-60°	4180.1	94.4
0°-90°	4425.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4425.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3101	3101	3101	3101	3101	
5°	3050	3054	3050	3054	3054	287
15°	2693	2697	2701	2717	2721	754
25°	2143	2139	2139	2158	2170	982
35°	1505	1521	1548	1537	1533	939
45°	915	950	978	966	939	706
55°	467	503	543	511	475	419
65°	158	190	238	190	162	167
75°	32	40	40	40	32	36
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°	3101.0	3101.0	3101.0	3101.0	3101.0
2.5°	3089.1	3089.1	3085.2	3089.1	3089.1
5°	3049.5	3053.5	3049.5	3053.5	3053.5
7.5°	2994.1	2994.1	2994.1	2998.0	2994.1
10°	2906.9	2910.9	2914.9	2918.8	2922.8
12.5°	2807.9	2811.9	2815.8	2823.8	2823.8
15°	2693.1	2697.0	2701.0	2716.8	2720.8
17.5°	2562.4	2566.3	2574.3	2590.1	2594.1
20°	2439.6	2427.7	2435.6	2447.5	2467.3
22.5°	2289.1	2289.1	2289.1	2305.0	2320.8
25°	2142.6	2138.6	2138.6	2158.4	2170.3
27.5°	1988.1	1988.1	1992.1	2004.0	2011.9
30°	1829.7	1829.7	1853.5	1849.5	1865.3
32.5°	1663.4	1675.2	1699.0	1691.1	1695.1
35°	1505.0	1520.8	1548.5	1536.6	1532.7
37.5°	1346.5	1366.3	1398.0	1386.1	1374.3
40°	1196.0	1223.8	1251.5	1235.6	1223.8
42.5°	1049.5	1081.2	1112.9	1097.0	1081.2
45°	914.9	950.5	978.2	966.3	938.6
47.5°	780.2	823.8	851.5	839.6	811.9
50°	665.3	708.9	740.6	720.8	685.1
52.5°	562.4	602.0	633.7	609.9	574.3
55°	467.3	503.0	542.6	510.9	475.2
57.5°	376.2	415.8	451.5	423.8	384.2
60°	289.1	332.7	372.3	340.6	293.1
62.5°	213.9	257.4	305.0	261.4	217.8
65°	158.4	190.1	237.6	190.1	162.4
67.5°	118.8	138.6	178.2	142.6	118.8
70°	87.1	103.0	118.8	103.0	87.1
72.5°	59.4	71.3	71.3	71.3	59.4
75°	31.7	39.6	39.6	39.6	31.7
77.5°	4.0	11.9	15.8	11.9	4.0
80°	0.0	0.0	4.0	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)