

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: P238017

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238017
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
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SHALLOW TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4473.4 lumens
Efficiency: N/A
Efficacy: 117.7 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

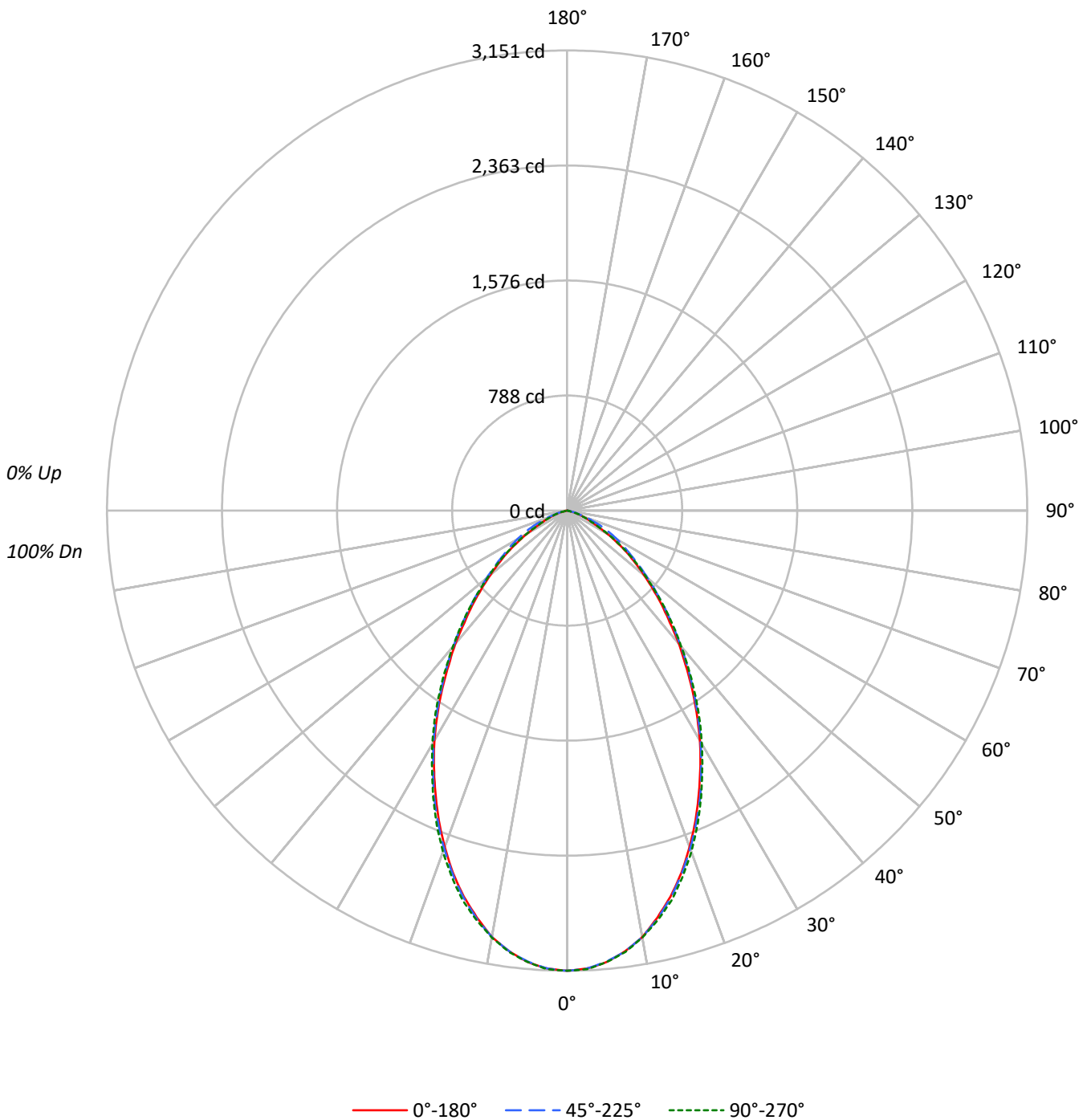
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	135664	135664	135664
5°	134129	133961	134129
10°	129625	129625	129796
15°	121925	122277	123159
20°	112270	112811	113901
25°	101360	102486	103051
30°	90330	90921	91707
35°	78437	79273	80103
40°	66968	68081	68301
45°	55921	57608	57608
50°	46138	48254	47196
55°	37142	40115	38036
60°	27271	34083	27952
65°	18552	27018	18949
70°	13457	17435	13457
75°	7902	9216	7236
80°	1959	2951	1959
85°	1976	1976	1976



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.9	6.5
10°-20°	768.0	17.2
20°-30°	986.0	22.0
30°-40°	942.1	21.1
40°-50°	729.7	16.3
50°-60°	469.3	10.5
60°-70°	222.5	5.0
70°-80°	59.5	1.3
80°-90°	4.4	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°	2045.8	45.7
0°-40°	2988.0	66.8
0°-60°	4187.0	93.6
0°-90°	4473.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4473.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3151	3151	3151	3151	3151	
5°	3103	3103	3100	3103	3103	292
15°	2735	2739	2743	2755	2763	765
25°	2134	2138	2157	2161	2169	979
35°	1492	1496	1508	1516	1524	931
45°	918	938	946	954	946	710
55°	495	522	534	530	507	442
65°	182	210	265	210	186	191
75°	48	55	55	55	44	51
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°	3150.9	3150.9	3150.9	3150.9	3150.9
2.5°	3139.0	3139.0	3139.0	3139.0	3143.0
5°	3103.4	3103.4	3099.5	3103.4	3103.4
7.5°	3044.0	3044.0	3044.0	3048.0	3048.0
10°	2964.9	2964.9	2964.9	2968.8	2968.8
12.5°	2854.0	2858.0	2861.9	2869.9	2869.9
15°	2735.3	2739.2	2743.2	2755.1	2763.0
17.5°	2600.7	2604.6	2608.6	2624.4	2628.4
20°	2450.3	2450.3	2462.1	2481.9	2485.9
22.5°	2295.9	2299.8	2311.7	2319.6	2331.5
25°	2133.6	2137.6	2157.3	2161.3	2169.2
27.5°	1975.3	1975.3	1987.1	1995.0	2003.0
30°	1816.9	1816.9	1828.8	1832.8	1844.6
32.5°	1650.7	1654.6	1666.5	1674.4	1686.3
35°	1492.3	1496.3	1508.2	1516.1	1524.0
37.5°	1330.0	1349.8	1357.7	1365.7	1365.7
40°	1191.5	1203.4	1211.3	1223.2	1215.2
42.5°	1041.1	1068.8	1072.7	1084.6	1076.7
45°	918.4	938.1	946.1	954.0	946.1
47.5°	795.6	819.4	827.3	831.3	819.4
50°	688.8	708.6	720.4	720.4	704.6
52.5°	585.8	609.6	621.5	621.5	605.6
55°	494.8	522.5	534.4	530.4	506.7
57.5°	399.8	435.4	463.1	443.3	411.7
60°	316.7	356.3	395.8	360.2	324.6
62.5°	237.5	277.1	328.5	281.0	241.5
65°	182.1	209.8	265.2	209.8	186.0
67.5°	142.5	158.3	197.9	158.3	142.5
70°	106.9	118.8	138.5	118.8	106.9
72.5°	75.2	87.1	91.0	87.1	75.2
75°	47.5	55.4	55.4	55.4	43.5
77.5°	15.8	23.8	31.7	23.8	15.8
80°	7.9	7.9	11.9	7.9	7.9
82.5°	7.9	7.9	7.9	7.9	7.9
85°	4.0	4.0	4.0	4.0	4.0
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)