

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: P237967

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P237967
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-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SHALLOW TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3804.0 lumens
Efficiency: N/A
Efficacy: 100.1 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

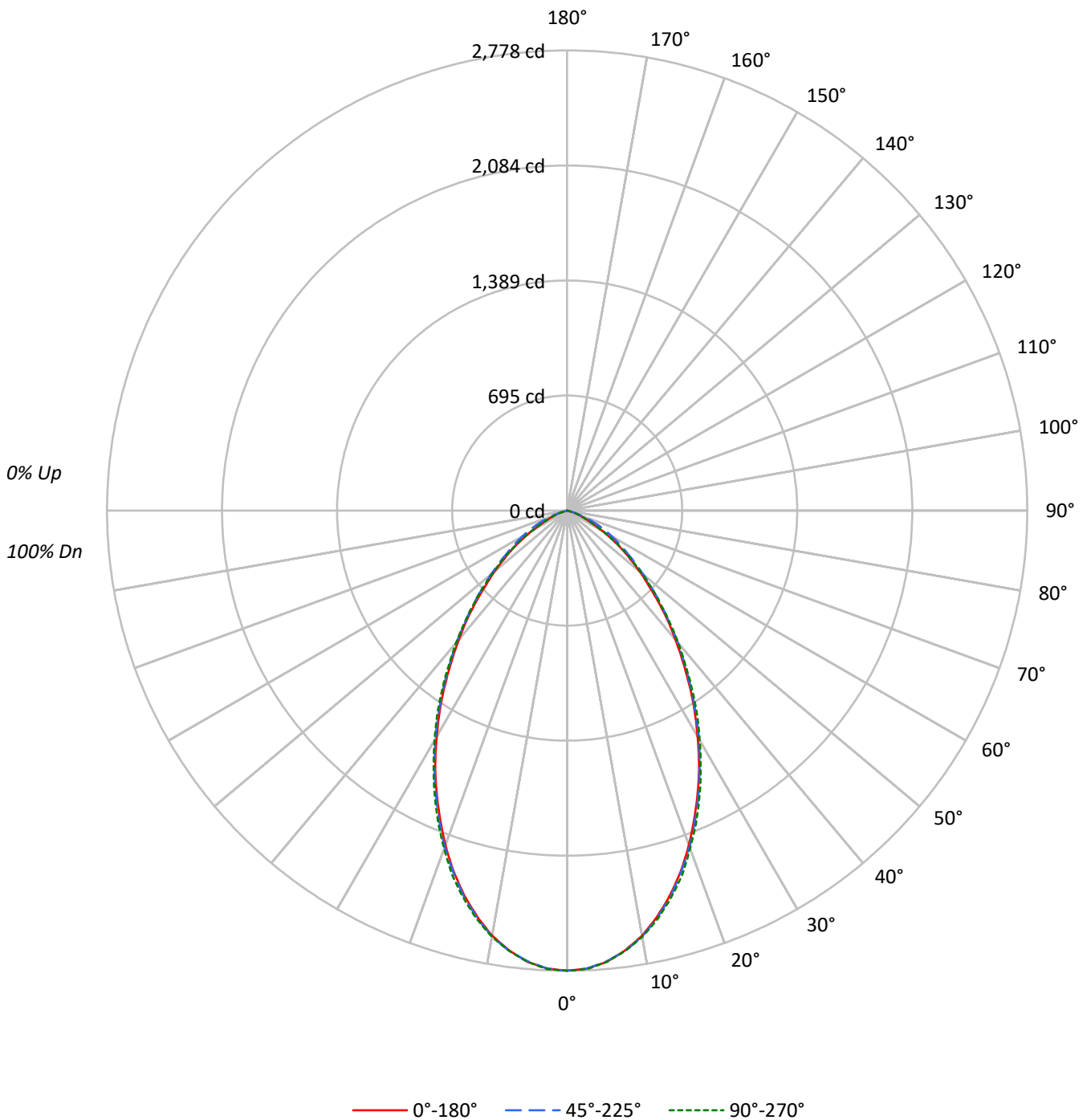
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	119600	119600	119600
5°	118203	118047	118203
10°	113951	114109	114262
15°	107108	107425	107901
20°	98483	98973	99464
25°	88709	89218	89897
30°	78278	78989	79521
35°	67557	68309	69060
40°	57194	58195	58600
45°	47177	48700	48481
50°	38267	40176	39218
55°	30019	32698	30822
60°	20908	27056	21519
65°	13458	20732	13458
70°	8988	12135	8988
75°	3560	5340	3560
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.0	6.8
10°-20°	674.0	17.7
20°-30°	860.1	22.6
30°-40°	813.0	21.4
40°-50°	617.4	16.2
50°-60°	381.3	10.0
60°-70°	166.4	4.4
70°-80°	34.7	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°	1791.1	47.1
0°-40°	2604.1	68.5
0°-60°	3602.9	94.7
0°-90°	3804.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3804.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2778	2778	2778	2778	2778	
5°	2735	2735	2731	2735	2735	257
15°	2403	2403	2410	2417	2421	672
25°	1867	1867	1878	1885	1892	856
35°	1285	1296	1300	1310	1314	803
45°	775	796	800	810	796	601
55°	400	425	436	432	411	357
65°	132	154	204	157	132	138
75°	21	32	32	32	21	27
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°	2777.8	2777.8	2777.8	2777.8	2777.8
2.5°	2767.1	2767.1	2767.1	2767.1	2770.6
5°	2734.9	2734.9	2731.3	2734.9	2734.9
7.5°	2677.8	2681.4	2681.4	2681.4	2681.4
10°	2606.4	2606.4	2610.0	2613.5	2613.5
12.5°	2510.0	2513.6	2517.1	2524.3	2524.3
15°	2402.9	2402.9	2410.0	2417.2	2420.7
17.5°	2281.5	2281.5	2288.6	2295.8	2306.5
20°	2149.4	2149.4	2160.1	2170.8	2170.8
22.5°	2006.6	2006.6	2020.8	2024.4	2035.1
25°	1867.3	1867.3	1878.0	1885.2	1892.3
27.5°	1724.5	1720.9	1731.6	1738.8	1745.9
30°	1574.5	1574.5	1588.8	1588.8	1599.5
32.5°	1431.7	1431.7	1442.4	1449.6	1460.3
35°	1285.3	1296.1	1299.6	1310.3	1313.9
37.5°	1146.1	1163.9	1163.9	1178.2	1171.1
40°	1017.6	1028.3	1035.4	1042.6	1042.6
42.5°	896.2	910.4	910.4	921.2	917.6
45°	774.8	796.2	799.8	810.5	796.2
47.5°	664.1	689.1	692.7	699.8	692.7
50°	571.3	589.1	599.8	599.8	585.5
52.5°	478.4	499.9	510.6	510.6	492.7
55°	399.9	424.9	435.6	432.0	410.6
57.5°	317.8	346.3	371.3	357.0	328.5
60°	242.8	278.5	314.2	285.6	249.9
62.5°	174.9	210.7	257.1	210.7	182.1
65°	132.1	153.5	203.5	157.1	132.1
67.5°	96.4	110.7	150.0	114.3	96.4
70°	71.4	82.1	96.4	82.1	71.4
72.5°	46.4	57.1	57.1	57.1	46.4
75°	21.4	32.1	32.1	32.1	21.4
77.5°	0.0	7.1	14.3	7.1	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)