

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: P253057

Luminaire Tested: **PRS640D010-S6M24-61SWDC**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253057  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1805-776-1)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS640D010-S6M24-61SWDC  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM SPECULAR  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3845.9 lumens  
Efficiency: N/A  
Efficacy: 101.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

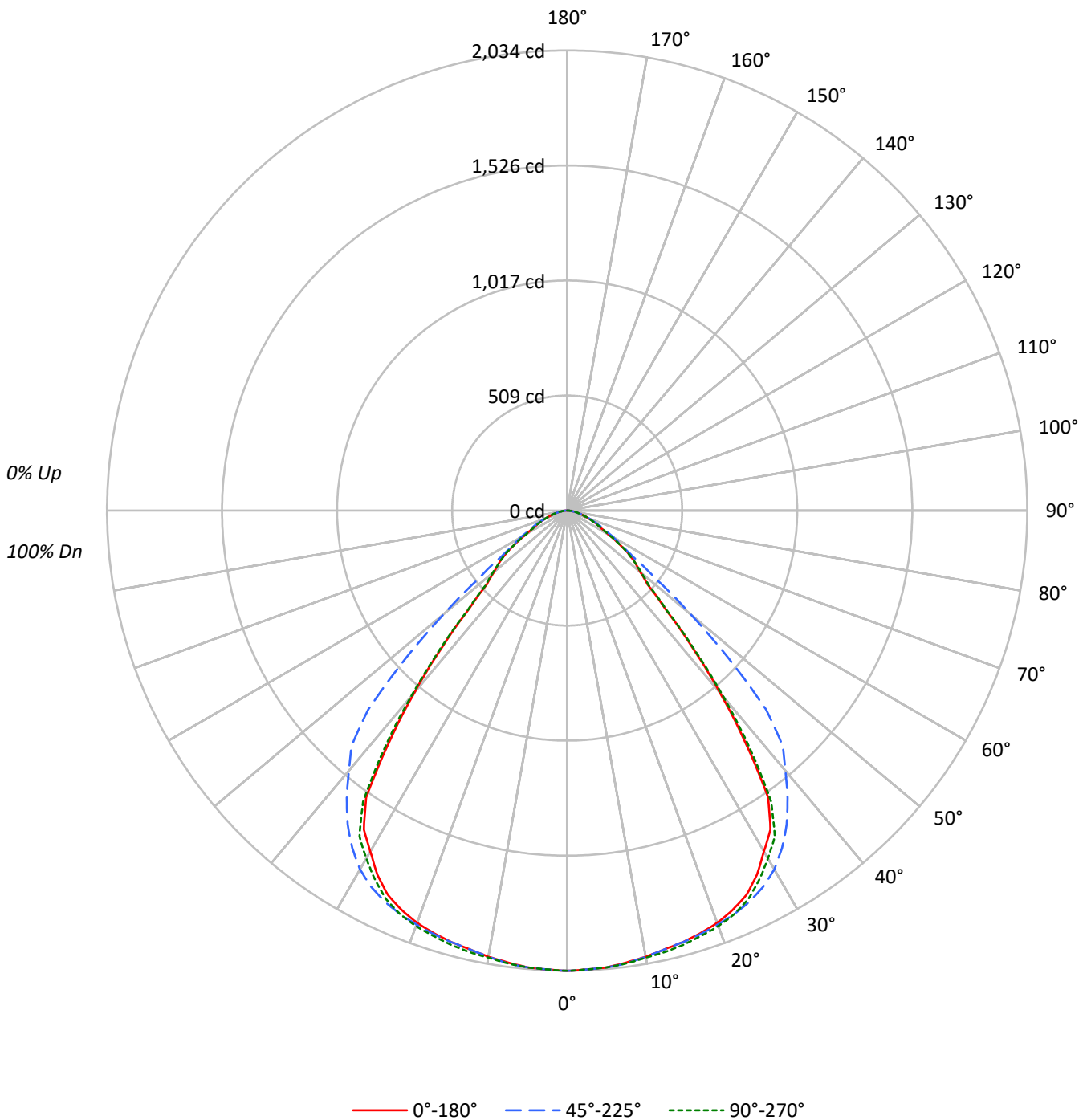
Input Watts (W): 38  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	100	102	99	97	98	96	94	94	93	91	89				89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79				79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70				70
4	90	80	73	67	88	79	72	67	77	71	66	74	69	65	72	68	65	63				63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56				56
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51				51
7	73	61	54	49	71	61	53	48	59	53	48	58	52	48	57	51	47	46				46
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42				42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	40	38				38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	37	46	40	36	35				35

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	87592	87592	87592
5°	87586	87586	87586
10°	87553	87553	87728
15°	88021	88021	88552
20°	88838	89200	89567
25°	89084	90595	90030
30°	86497	91051	88276
35°	81402	88934	82658
40°	59077	84358	60415
45°	37088	75637	37819
50°	28267	47471	28803
55°	24802	26596	24802
60°	18169	20228	18169
65°	15007	16229	15007
70°	12526	13029	12526
75°	10597	10597	10597
80°	8877	8877	8877
85°	7855	7855	7855



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	192.7	5.0
10°-20°	559.7	14.6
20°-30°	870.9	22.6
30°-40°	995.2	25.9
40°-50°	665.8	17.3
50°-60°	318.6	8.3
60°-70°	155.3	4.0
70°-80°	69.9	1.8
80°-90°	17.9	0.5
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°	1623.2	42.2
0°-40°	2618.4	68.1
0°-60°	3602.8	93.7
0°-90°	3845.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3845.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2034	2034	2034	2034	2034	
5°	2026	2026	2026	2026	2026	193
15°	1975	1975	1975	1983	1987	558
25°	1875	1887	1907	1903	1895	858
35°	1549	1636	1692	1660	1573	920
45°	609	784	1242	796	621	505
55°	330	354	354	358	330	288
65°	147	151	159	151	147	148
75°	64	64	64	64	64	68
85°	16	16	16	16	16	18
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2034.4	2034.4	2034.4	2034.4	2034.4
2.5°	2030.4	2030.4	2030.4	2030.4	2030.4
5°	2026.5	2026.5	2026.5	2026.5	2026.5
7.5°	2014.5	2014.5	2018.5	2014.5	2018.5
10°	2002.6	2002.6	2002.6	2006.6	2006.6
12.5°	1986.6	1986.6	1986.6	1994.6	1998.6
15°	1974.7	1974.7	1974.7	1982.7	1986.6
17.5°	1958.8	1958.8	1962.8	1970.7	1970.7
20°	1938.9	1942.9	1946.8	1954.8	1954.8
22.5°	1911.0	1919.0	1930.9	1934.9	1930.9
25°	1875.2	1887.1	1907.0	1903.0	1895.1
27.5°	1815.5	1843.3	1875.2	1859.2	1839.3
30°	1739.8	1783.6	1831.4	1799.5	1775.6
32.5°	1672.1	1708.0	1767.7	1731.8	1708.0
35°	1548.7	1636.3	1692.0	1660.2	1572.6
37.5°	1297.9	1493.0	1600.5	1516.9	1329.7
40°	1051.1	1258.1	1500.9	1274.0	1074.9
42.5°	816.2	1015.2	1409.4	1031.1	832.1
45°	609.1	784.3	1242.2	796.3	621.1
47.5°	481.7	581.3	967.4	593.2	489.7
50°	422.0	461.8	708.7	469.8	430.0
52.5°	378.2	402.1	493.7	406.1	378.2
55°	330.4	354.3	354.3	358.3	330.4
57.5°	266.7	302.6	278.7	302.6	270.7
60°	211.0	238.9	234.9	238.9	211.0
62.5°	171.2	187.1	191.1	187.1	171.2
65°	147.3	151.3	159.3	151.3	147.3
67.5°	123.4	127.4	127.4	127.4	119.4
70°	99.5	103.5	103.5	103.5	99.5
72.5°	79.6	83.6	83.6	83.6	79.6
75°	63.7	63.7	63.7	63.7	63.7
77.5°	47.8	51.8	47.8	51.8	47.8
80°	35.8	35.8	35.8	35.8	35.8
82.5°	23.9	23.9	23.9	23.9	23.9
85°	15.9	15.9	15.9	15.9	15.9
87.5°	8.0	8.0	8.0	8.0	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)