

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: P253032

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253032  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1804-748-1)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS640D010-S6M24-64SWDMW-4000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW TRIM MATTE WHITE  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4009.3 lumens  
Efficiency: N/A  
Efficacy: 105.5 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.32 / 1.41  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

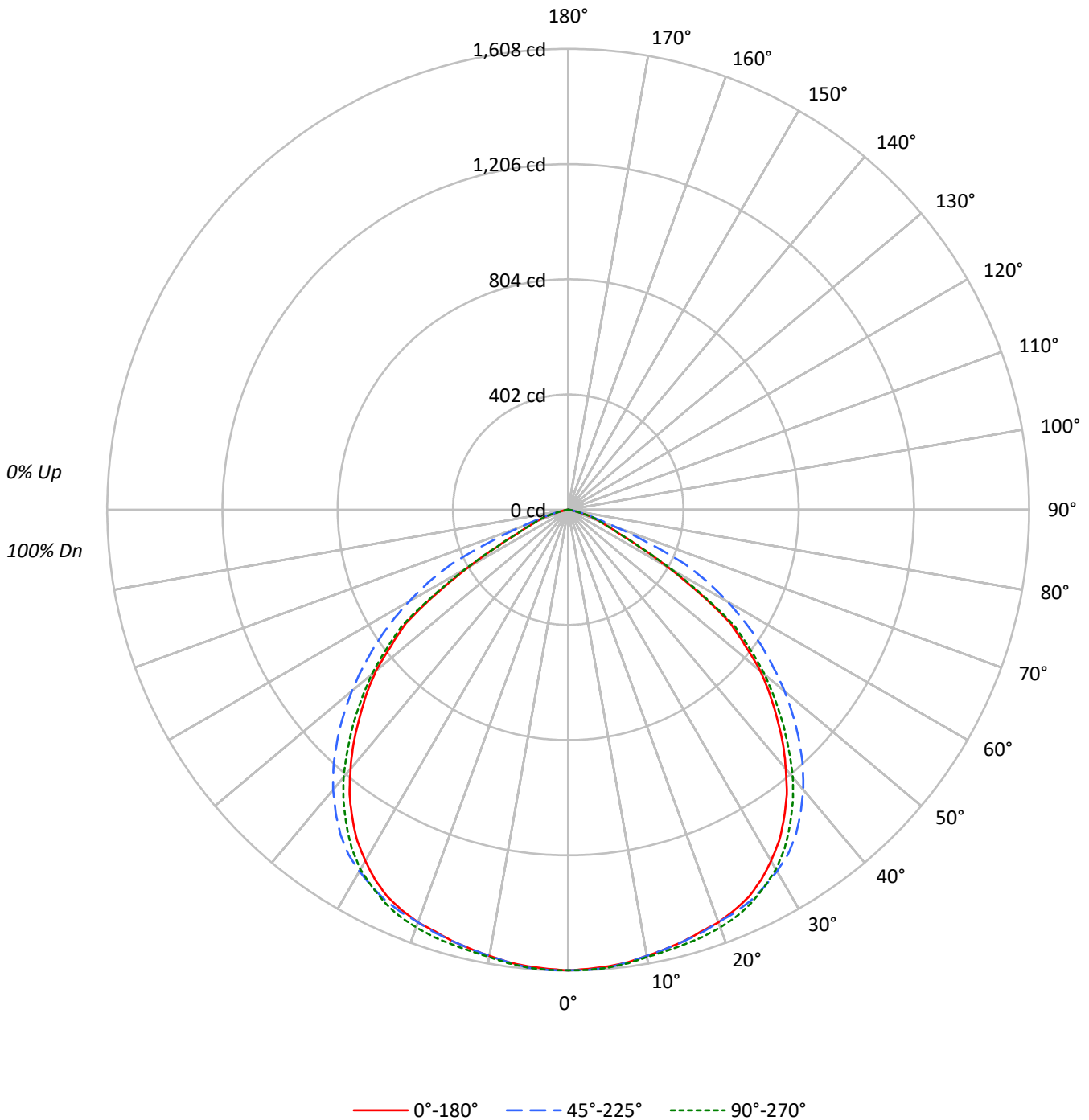
Input Watts (W): 38  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76
3	94	84	77	72	91	83	76	71	80	74	70	77	73	68	75	71	67	65
4	86	76	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28

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

	0°	45°	90°
0°	69212	69212	69212
5°	69152	69316	69316
10°	69125	69125	69292
15°	69469	69469	69973
20°	70199	70199	71060
25°	70813	71531	71887
30°	70354	72417	72044
35°	69023	72792	70811
40°	66384	71690	68508
45°	62729	69390	64568
50°	58643	65971	59903
55°	51840	61471	53251
60°	34772	55240	35745
65°	19612	45754	19612
70°	14729	22332	14250
75°	8784	10048	9416
80°	3744	4686	3744
85°	1877	1877	1877



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.3	3.8
10°-20°	441.7	11.0
20°-30°	692.1	17.3
30°-40°	845.5	21.1
40°-50°	840.6	21.0
50°-60°	663.7	16.6
60°-70°	297.1	7.4
70°-80°	69.2	1.7
80°-90°	7.2	0.2
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°	1286.1	32.1
0°-40°	2131.6	53.2
0°-60°	3635.9	90.7
0°-90°	4009.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4009.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1608	1608	1608	1608	1608	
5°	1600	1600	1604	1604	1604	152
15°	1558	1555	1558	1562	1570	441
25°	1491	1494	1506	1509	1513	685
35°	1313	1340	1385	1366	1347	819
45°	1030	1079	1140	1106	1060	795
55°	691	743	819	758	709	591
65°	192	253	449	257	192	215
75°	53	64	60	64	57	60
85°	4	4	4	4	4	7
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1607.5	1607.5	1607.5	1607.5	1607.5
2.5°	1603.8	1607.5	1607.5	1607.5	1607.5
5°	1600.0	1600.0	1603.8	1603.8	1603.8
7.5°	1592.5	1592.5	1592.5	1596.2	1596.2
10°	1581.1	1581.1	1581.1	1584.9	1584.9
12.5°	1569.8	1569.8	1569.8	1573.6	1577.4
15°	1558.5	1554.7	1558.5	1562.3	1569.8
17.5°	1543.4	1547.2	1547.2	1554.7	1562.3
20°	1532.1	1532.1	1532.1	1543.4	1550.9
22.5°	1513.2	1513.2	1520.8	1528.3	1535.9
25°	1490.6	1494.3	1505.7	1509.4	1513.2
27.5°	1456.6	1467.9	1483.0	1486.8	1483.0
30°	1415.1	1430.2	1456.6	1452.8	1449.1
32.5°	1369.8	1388.7	1426.4	1415.1	1403.8
35°	1313.2	1339.6	1384.9	1366.0	1347.2
37.5°	1252.8	1286.8	1332.1	1313.2	1286.8
40°	1181.1	1222.6	1275.5	1249.1	1218.9
42.5°	1109.4	1154.7	1211.3	1177.4	1139.6
45°	1030.2	1079.2	1139.6	1105.7	1060.4
47.5°	954.7	1003.8	1064.2	1022.6	977.4
50°	875.5	920.8	984.9	939.6	894.3
52.5°	777.4	837.7	901.9	852.8	800.0
55°	690.6	743.4	818.9	758.5	709.4
57.5°	543.4	649.1	732.1	660.4	558.5
60°	403.8	505.7	641.5	520.8	415.1
62.5°	279.2	373.6	550.9	377.4	283.0
65°	192.5	252.8	449.1	256.6	192.5
67.5°	143.4	169.8	301.9	169.8	143.4
70°	117.0	124.5	177.4	124.5	113.2
72.5°	86.8	98.1	98.1	98.1	90.6
75°	52.8	64.2	60.4	64.2	56.6
77.5°	22.6	30.2	37.7	34.0	22.6
80°	15.1	15.1	18.9	15.1	15.1
82.5°	11.3	11.3	11.3	11.3	11.3
85°	3.8	3.8	3.8	3.8	3.8
87.5°	3.8	3.8	3.8	3.8	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)