

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: P253097

Luminaire Tested: **PRS640D010-S6M24-61SWDMB-3000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253097  
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-S6M24-61SWDMB-3000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP 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: 2417.6 lumens  
Efficiency: N/A  
Efficacy: 63.6 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

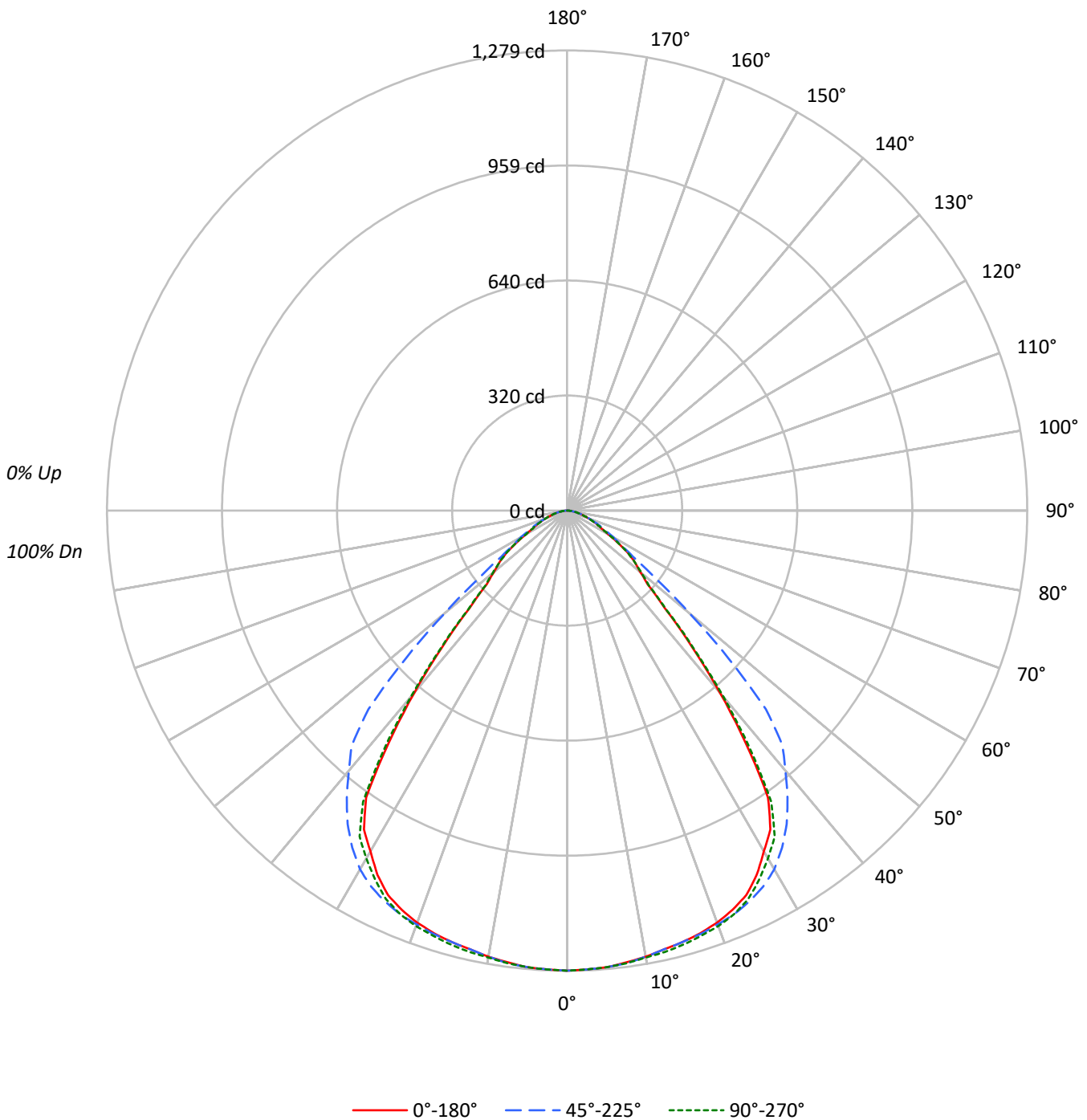
Input Watts (W): 38  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97		98	96	94		94	93	91	89
2	104	97	92	88	101	96	91	87	92	88	85		89	86	83		86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	75		81	77	73		79	75	72	70
4	90	80	73	67	88	79	72	67	77	71	66		74	69	65		72	68	65	63
5	84	73	66	60	82	72	65	60	70	64	59		68	63	59		66	62	58	56
6	78	67	59	54	76	66	59	54	64	58	53		63	57	53		61	56	52	51
7	73	61	54	49	71	61	53	48	59	53	48		58	52	48		57	51	47	46
8	68	57	49	44	67	56	49	44	55	48	44		54	48	43		52	47	43	42
9	64	52	45	40	63	52	45	40	51	44	40		50	44	40		49	43	40	38
10	60	49	42	37	59	48	41	37	47	41	37		46	41	37		46	40	36	35

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

	0°	45°	90°
0°	55064	55064	55064
5°	55058	55058	55058
10°	55039	55039	55148
15°	55335	55335	55669
20°	55844	56073	56307
25°	56001	56951	56595
30°	54375	57238	55493
35°	51174	55909	51962
40°	37135	53030	37978
45°	23315	47549	23771
50°	17771	29841	18105
55°	15591	16717	15591
60°	11418	12719	11418
65°	9434	10198	9434
70°	7880	8195	7880
75°	6654	6654	6654
80°	5579	5579	5579
85°	4940	4940	4940



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.1	5.0
10°-20°	351.8	14.6
20°-30°	547.5	22.6
30°-40°	625.6	25.9
40°-50°	418.5	17.3
50°-60°	200.3	8.3
60°-70°	97.6	4.0
70°-80°	43.9	1.8
80°-90°	11.2	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°	1020.4	42.2
0°-40°	1646.0	68.1
0°-60°	2264.8	93.7
0°-90°	2417.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2417.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1279	1279	1279	1279	1279	
5°	1274	1274	1274	1274	1274	121
15°	1241	1241	1241	1246	1249	351
25°	1179	1186	1199	1196	1191	540
35°	974	1029	1064	1044	989	578
45°	383	493	781	500	390	317
55°	208	223	223	225	208	181
65°	93	95	100	95	93	93
75°	40	40	40	40	40	43
85°	10	10	10	10	10	11
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1278.9	1278.9	1278.9	1278.9	1278.9
2.5°	1276.4	1276.4	1276.4	1276.4	1276.4
5°	1273.9	1273.9	1273.9	1273.9	1273.9
7.5°	1266.4	1266.4	1268.9	1266.4	1268.9
10°	1258.9	1258.9	1258.9	1261.4	1261.4
12.5°	1248.9	1248.9	1248.9	1253.9	1256.4
15°	1241.4	1241.4	1241.4	1246.4	1248.9
17.5°	1231.4	1231.4	1233.9	1238.9	1238.9
20°	1218.8	1221.3	1223.8	1228.9	1228.9
22.5°	1201.3	1206.3	1213.8	1216.3	1213.8
25°	1178.8	1186.3	1198.8	1196.3	1191.3
27.5°	1141.3	1158.8	1178.8	1168.8	1156.3
30°	1093.7	1121.2	1151.3	1131.2	1116.2
32.5°	1051.2	1073.7	1111.2	1088.7	1073.7
35°	973.6	1028.6	1063.7	1043.6	988.6
37.5°	815.9	938.5	1006.1	953.5	835.9
40°	660.7	790.9	943.5	800.9	675.7
42.5°	513.1	638.2	886.0	648.2	523.1
45°	382.9	493.0	780.9	500.5	390.4
47.5°	302.8	365.4	608.2	372.9	307.8
50°	265.3	290.3	445.5	295.3	270.3
52.5°	237.8	252.8	310.3	255.3	237.8
55°	207.7	222.7	222.7	225.2	207.7
57.5°	167.7	190.2	175.2	190.2	170.2
60°	132.6	150.2	147.7	150.2	132.6
62.5°	107.6	117.6	120.1	117.6	107.6
65°	92.6	95.1	100.1	95.1	92.6
67.5°	77.6	80.1	80.1	80.1	75.1
70°	62.6	65.1	65.1	65.1	62.6
72.5°	50.1	52.6	52.6	52.6	50.1
75°	40.0	40.0	40.0	40.0	40.0
77.5°	30.0	32.5	30.0	32.5	30.0
80°	22.5	22.5	22.5	22.5	22.5
82.5°	15.0	15.0	15.0	15.0	15.0
85°	10.0	10.0	10.0	10.0	10.0
87.5°	5.0	5.0	5.0	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)