

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: P238002

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238002
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-4)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS640D010-S6M24-64SNDMW
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW 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: 4540.7 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.83 / 0.85
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

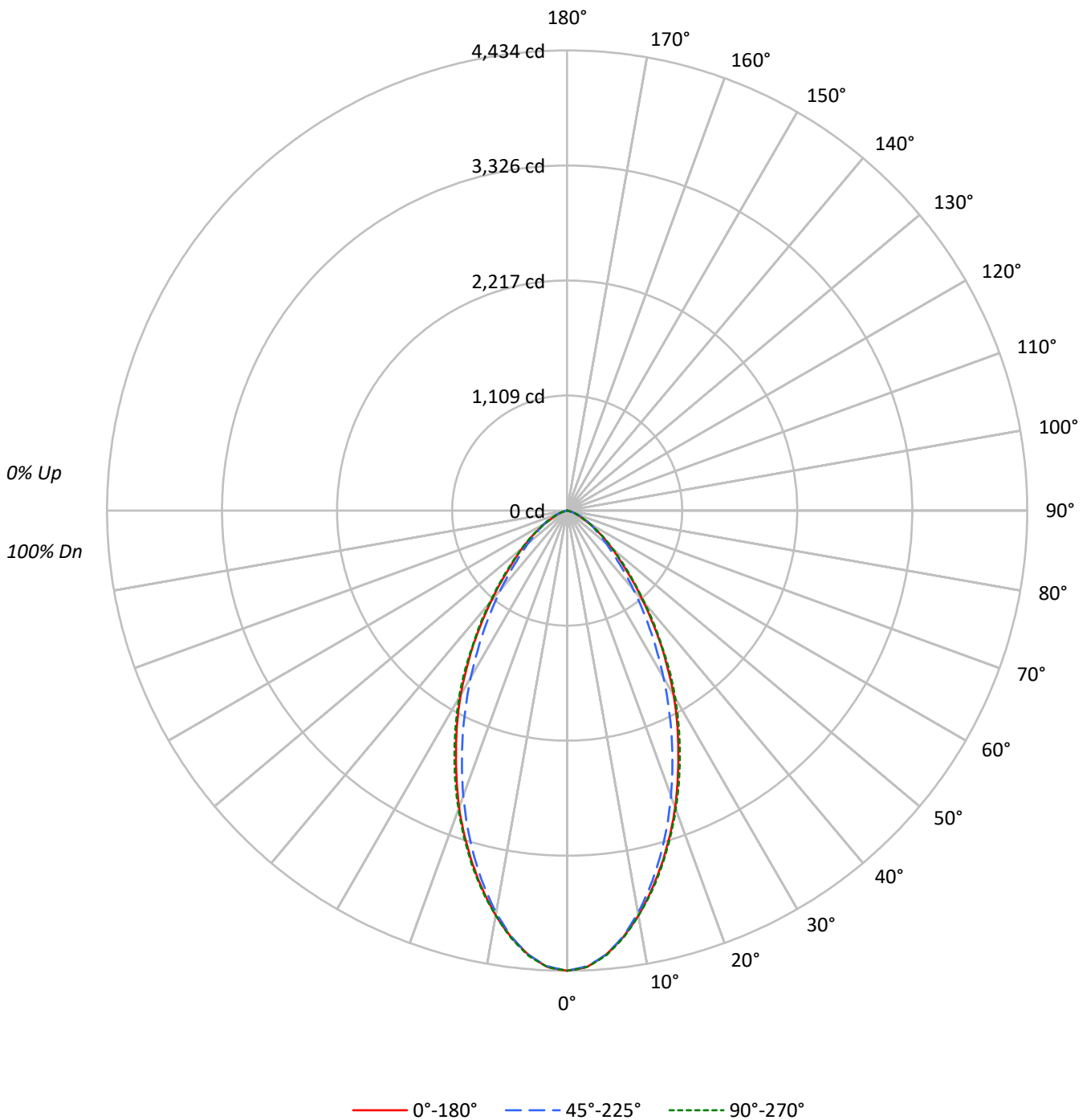
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82					82			
3	99	91	85	81	97	90	84	80	87	83	79	85	81	77	82	79	76	75					75			
4	93	84	77	72	91	83	77	72	81	75	71	78	74	70	76	73	69	68					68			
5	87	77	71	66	85	76	70	65	75	69	65	73	68	64	71	67	64	62					62			
6	82	72	65	60	81	71	64	60	69	64	59	68	63	59	66	62	58	57					57			
7	77	67	60	55	76	66	60	55	65	59	55	63	58	54	62	58	54	52					52			
8	73	62	56	51	72	62	55	51	61	55	50	59	54	50	58	54	50	48					48			
9	69	58	52	47	68	58	51	47	57	51	47	56	51	47	55	50	47	45					45			
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42					42			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	190900	190900	190900
5°	185643	185643	185985
10°	173249	172038	173249
15°	157049	154049	157754
20°	139486	134043	140210
25°	120363	113028	122054
30°	101948	92308	103524
35°	82605	72829	83441
40°	63860	55845	65192
45°	48213	41941	49899
50°	37390	32614	38448
55°	28525	25852	29125
60°	20796	21821	20796
65°	14925	16942	14518
70°	10461	11959	10461
75°	5922	6588	5922
80°	1959	1959	1959
85°	1976	1976	1976



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.1	8.8
10°-20°	973.7	21.4
20°-30°	1125.4	24.8
30°-40°	923.2	20.3
40°-50°	583.5	12.9
50°-60°	331.3	7.3
60°-70°	157.3	3.5
70°-80°	43.9	1.0
80°-90°	3.2	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°	2498.2	55.0
0°-40°	3421.5	75.4
0°-60°	4336.2	95.5
0°-90°	4540.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4540.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4434	4434	4434	4434	4434	
5°	4295	4295	4295	4307	4303	399
15°	3523	3496	3456	3504	3539	983
25°	2534	2443	2379	2462	2569	1162
35°	1572	1457	1386	1481	1588	980
45°	792	728	689	740	820	625
55°	380	364	344	372	388	344
65°	146	154	166	154	142	149
75°	36	40	40	40	36	40
85°	4	4	4	4	4	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4433.8	4433.8	4433.8	4433.8	4433.8
2.5°	4402.1	4398.2	4394.2	4398.2	4402.1
5°	4295.3	4295.3	4295.3	4307.1	4303.2
7.5°	4144.8	4140.9	4136.9	4148.8	4152.7
10°	3962.7	3946.9	3935.0	3954.8	3962.7
12.5°	3748.9	3729.2	3705.4	3733.1	3760.8
15°	3523.3	3495.6	3456.0	3503.5	3539.1
17.5°	3285.8	3234.3	3194.7	3246.2	3301.6
20°	3044.3	2980.9	2925.5	2980.9	3060.1
22.5°	2787.0	2703.8	2648.4	2719.7	2818.6
25°	2533.6	2442.6	2379.2	2462.4	2569.2
27.5°	2292.1	2181.3	2110.0	2205.0	2323.8
30°	2050.6	1931.9	1856.7	1951.7	2082.3
32.5°	1805.2	1690.4	1611.2	1714.1	1840.8
35°	1571.6	1456.8	1385.6	1480.6	1587.5
37.5°	1342.0	1235.1	1179.7	1254.9	1373.7
40°	1136.2	1041.2	993.6	1060.9	1159.9
42.5°	958.0	870.9	831.3	886.8	981.8
45°	791.8	728.4	688.8	740.3	819.5
47.5°	665.1	609.6	578.0	621.5	684.9
50°	558.2	514.6	486.9	522.6	574.0
52.5°	467.1	431.5	407.8	439.4	479.0
55°	380.0	364.2	344.4	372.1	388.0
57.5°	300.9	296.9	296.9	300.9	304.8
60°	241.5	241.5	253.4	245.4	241.5
62.5°	186.1	194.0	213.8	194.0	186.1
65°	146.5	154.4	166.3	154.4	142.5
67.5°	110.8	118.8	126.7	118.8	106.9
70°	83.1	91.1	95.0	91.1	83.1
72.5°	59.4	63.3	63.3	63.3	55.4
75°	35.6	39.6	39.6	39.6	35.6
77.5°	11.9	19.8	19.8	19.8	11.9
80°	7.9	7.9	7.9	7.9	7.9
82.5°	4.0	4.0	4.0	4.0	4.0
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)