

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: P238042

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238042
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-7)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS640D010-S6M24-64SNDH-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SHALLOW TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4046.9 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.85
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

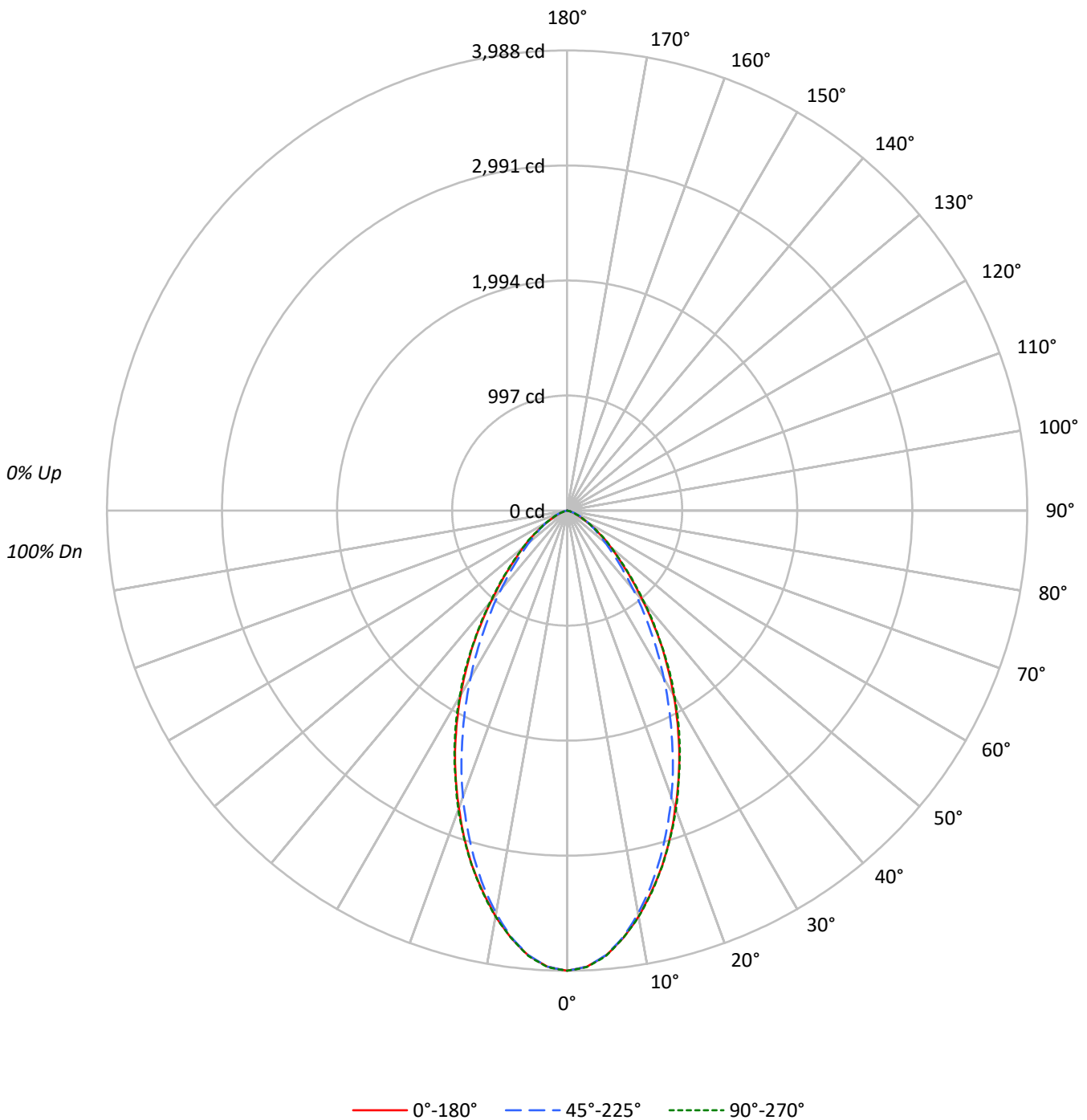
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	102	103	101	99	99	98	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83					83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77	75					75			
4	93	84	78	73	91	83	77	73	81	76	72	79	74	71	77	73	70	68					68			
5	88	78	71	66	86	77	71	66	75	69	65	73	68	65	72	67	64	62					62			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57					57			
7	78	67	60	56	76	66	60	55	65	59	55	64	59	55	63	58	54	53					53			
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49					49			
9	70	59	52	48	68	58	52	48	57	51	47	56	51	47	55	51	47	46					46			
10	66	55	49	44	65	55	49	44	54	48	44	53	48	44	52	47	44	43					43			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	171702	171702	171702
5°	167262	167106	167413
10°	156071	154978	156229
15°	141921	138894	142081
20°	125580	120994	126401
25°	109156	101854	109835
30°	91846	83141	92557
35°	74753	65549	74942
40°	57442	50011	58245
45°	43299	37642	44170
50°	33029	28722	33746
55°	24681	22535	24681
60°	17231	18152	17541
65°	11645	13835	12011
70°	8094	9001	7641
75°	3560	4159	3560
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.4	8.9
10°-20°	877.9	21.7
20°-30°	1015.5	25.1
30°-40°	831.3	20.5
40°-50°	520.0	12.8
50°-60°	286.1	7.1
60°-70°	127.6	3.2
70°-80°	29.2	0.7
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°	2252.8	55.7
0°-40°	3084.1	76.2
0°-60°	3890.1	96.1
0°-90°	4046.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4046.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3988	3988	3988	3988	3988	
5°	3870	3866	3866	3874	3874	360
15°	3184	3148	3116	3155	3188	887
25°	2298	2208	2144	2219	2312	1051
35°	1422	1315	1247	1326	1426	884
45°	711	650	618	661	725	559
55°	329	314	300	322	329	298
65°	114	125	136	125	118	120
75°	21	25	25	25	21	25
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°	3987.9	3987.9	3987.9	3987.9	3987.9
2.5°	3955.7	3959.3	3955.7	3959.3	3959.3
5°	3870.0	3866.4	3866.4	3873.5	3873.5
7.5°	3734.2	3730.6	3727.0	3734.2	3734.2
10°	3569.8	3562.7	3544.8	3566.2	3573.4
12.5°	3380.4	3366.1	3341.1	3366.1	3387.6
15°	3183.9	3148.1	3116.0	3155.3	3187.5
17.5°	2969.5	2923.0	2880.1	2919.5	2973.1
20°	2740.8	2687.2	2640.7	2690.8	2758.7
22.5°	2522.8	2447.8	2394.2	2454.9	2526.4
25°	2297.7	2208.3	2144.0	2219.1	2312.0
27.5°	2069.0	1972.5	1904.6	1986.8	2090.4
30°	1847.4	1743.8	1672.3	1761.7	1861.7
32.5°	1625.9	1529.4	1457.9	1543.7	1650.9
35°	1422.2	1315.0	1247.1	1325.7	1425.8
37.5°	1211.4	1114.9	1061.3	1129.2	1229.2
40°	1022.0	936.2	889.8	950.5	1036.3
42.5°	857.6	782.6	743.3	789.7	875.5
45°	711.1	650.4	618.2	661.1	725.4
47.5°	589.6	543.2	511.0	550.3	600.3
50°	493.1	450.2	428.8	457.4	503.8
52.5°	407.4	378.8	353.8	382.4	418.1
55°	328.8	314.5	300.2	321.6	328.8
57.5°	257.3	253.7	250.1	257.3	260.9
60°	200.1	203.7	210.8	203.7	203.7
62.5°	153.7	160.8	175.1	160.8	157.2
65°	114.3	125.1	135.8	125.1	117.9
67.5°	85.8	92.9	100.1	92.9	85.8
70°	64.3	67.9	71.5	67.9	60.7
72.5°	39.3	46.5	46.5	46.5	39.3
75°	21.4	25.0	25.0	25.0	21.4
77.5°	3.6	10.7	10.7	10.7	3.6
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)