

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: P238277

Luminaire Tested: **PRS640D010-S6M24-61SNDC-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238277
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-22)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS640D010-S6M24-61SNDC-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, DEEP TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4152.8 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.8 / 0.81
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

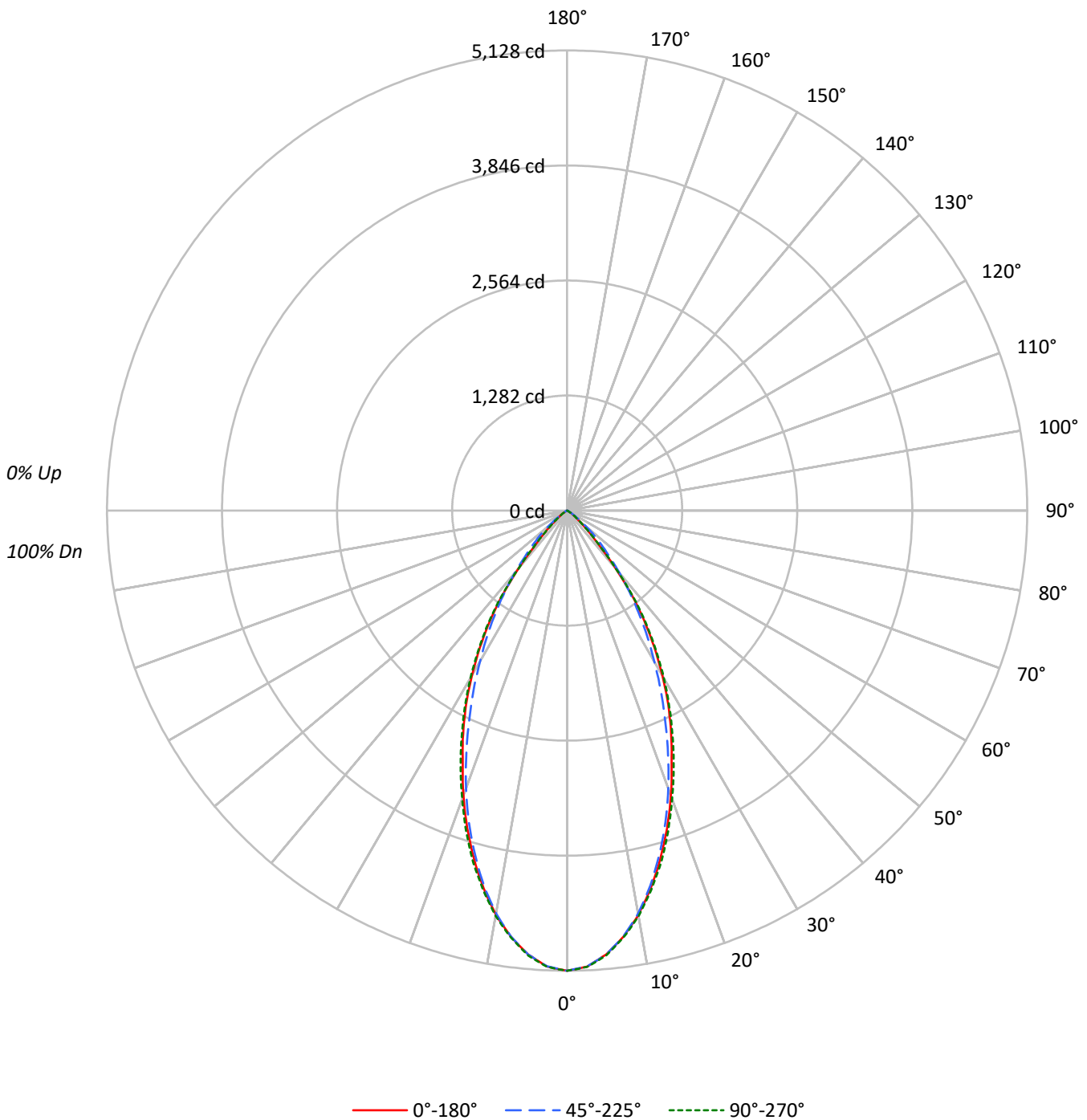
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93					93			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87					87			
3	102	96	91	86	100	94	90	86	92	88	84	89	86	83	87	84	82	80					80			
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	79	76	74					74			
5	92	83	77	73	90	82	77	73	80	76	72	79	75	71	77	74	71	69					69			
6	87	78	72	67	86	77	71	67	76	71	67	74	70	66	73	69	66	64					64			
7	83	73	67	63	81	72	67	63	71	66	62	70	65	62	69	65	62	60					60			
8	79	69	63	59	77	68	62	58	67	62	58	66	61	58	65	61	58	56					56			
9	75	65	59	55	74	64	59	55	63	58	55	63	58	54	62	57	54	53					53			
10	71	61	55	52	70	61	55	51	60	55	51	59	55	51	59	54	51	50					50			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	220798	220798	220798
5°	214631	214631	215120
10°	199953	199293	200613
15°	178971	176952	180652
20°	154918	150941	156646
25°	130330	122800	132121
30°	105434	96241	107313
35°	78542	72792	80529
40°	47083	50905	47297
45°	21829	32856	22060
50°	10617	18454	10617
55°	5667	7649	5667
60°	1946	3246	1946
65°	0	1151	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.6	11.1
10°-20°	1112.0	26.8
20°-30°	1222.3	29.4
30°-40°	897.0	21.6
40°-50°	364.7	8.8
50°-60°	87.7	2.1
60°-70°	7.5	0.2
70°-80°	0.0	0.0
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°	2795.9	67.3
0°-40°	3692.9	88.9
0°-60°	4145.2	99.8
0°-90°	4152.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4152.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5128	5128	5128	5128	5128	
5°	4966	4970	4966	4977	4977	462
15°	4015	4000	3970	4008	4053	1117
25°	2743	2645	2585	2683	2781	1253
35°	1494	1423	1385	1449	1532	920
45°	358	426	540	434	362	311
55°	76	91	102	91	76	71
65°	0	0	11	0	0	3
75°	0	0	0	0	0	0
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°	5128.2	5128.2	5128.2	5128.2	5128.2
2.5°	5086.7	5086.7	5083.0	5086.7	5090.5
5°	4966.0	4969.8	4966.0	4977.3	4977.3
7.5°	4792.4	4784.9	4788.6	4803.7	4800.0
10°	4573.5	4562.2	4558.4	4573.5	4588.6
12.5°	4309.4	4290.5	4283.0	4305.6	4328.3
15°	4015.1	4000.0	3969.8	4007.5	4052.8
17.5°	3705.6	3675.4	3641.5	3690.5	3743.4
20°	3381.1	3328.3	3294.3	3354.7	3418.8
22.5°	3041.5	2984.9	2939.6	3022.6	3101.9
25°	2743.4	2645.3	2584.9	2683.0	2781.1
27.5°	2437.7	2332.1	2260.4	2362.2	2467.9
30°	2120.7	2015.1	1935.8	2052.8	2158.5
32.5°	1807.5	1713.2	1660.4	1743.4	1833.9
35°	1494.3	1422.6	1384.9	1449.0	1532.1
37.5°	1173.6	1150.9	1139.6	1169.8	1207.5
40°	837.7	894.3	905.7	909.4	841.5
42.5°	554.7	634.0	698.1	645.3	562.3
45°	358.5	426.4	539.6	434.0	362.3
47.5°	230.2	283.0	403.8	286.8	234.0
50°	158.5	188.7	275.5	188.7	158.5
52.5°	109.4	128.3	173.6	128.3	113.2
55°	75.5	90.6	101.9	90.6	75.5
57.5°	45.3	56.6	60.4	56.6	45.3
60°	22.6	34.0	37.7	34.0	22.6
62.5°	0.0	11.3	22.6	11.3	0.0
65°	0.0	0.0	11.3	0.0	0.0
67.5°	0.0	0.0	3.8	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
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)