

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: P238177

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238177
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-16)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS640D010-S6M24-61SNDMW-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, DEEP TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3939.7 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.87
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

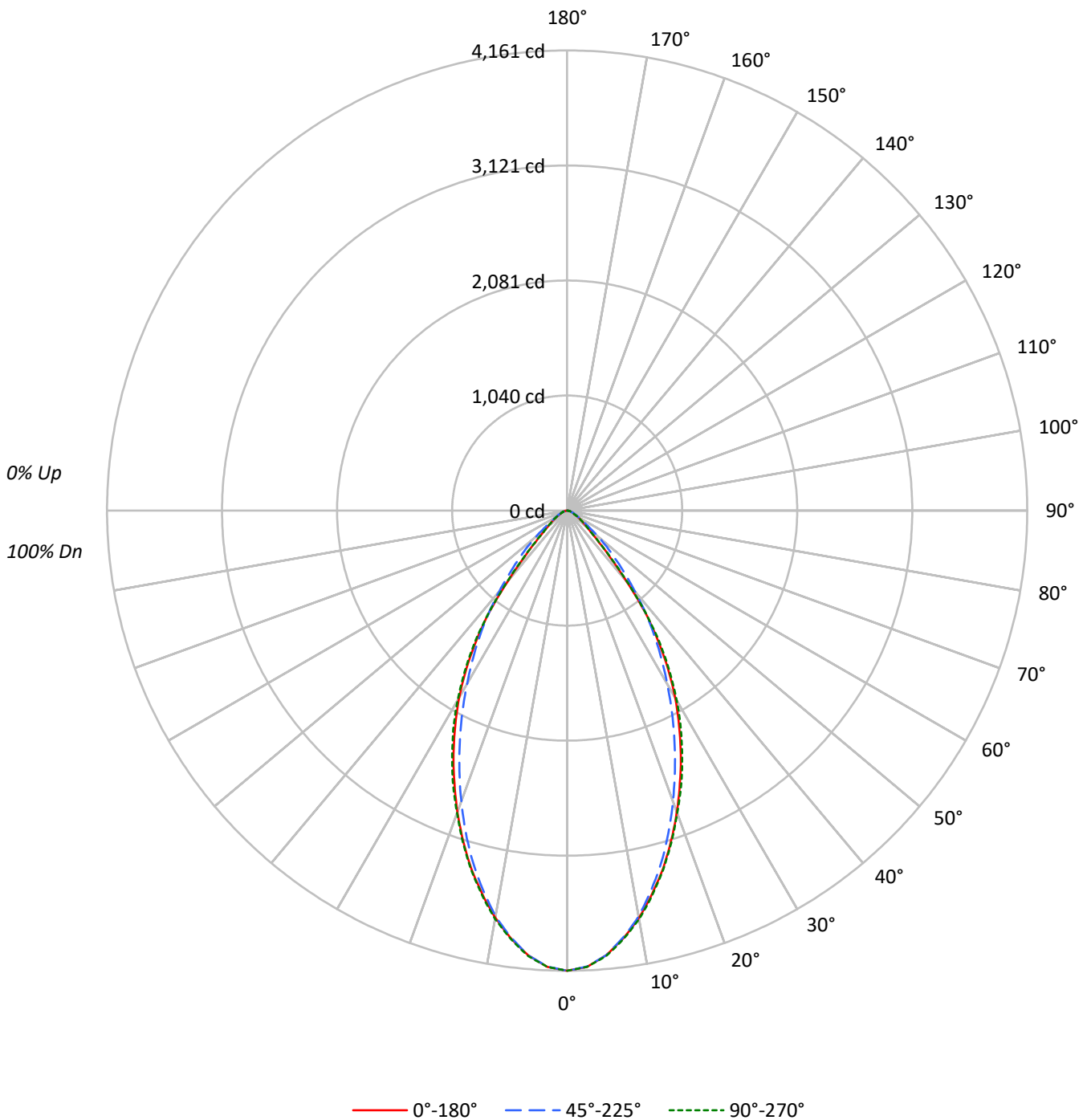
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92
2	106	101	96	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77
4	95	86	80	75	93	85	79	75	83	78	74	81	77	73	79	75	72	71
5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67	65
6	84	75	68	63	83	74	68	63	72	67	63	71	66	62	69	65	62	60
7	80	70	63	59	78	69	63	58	68	62	58	66	61	58	65	61	57	56
8	76	65	59	54	74	65	58	54	64	58	54	62	57	54	61	57	53	52
9	72	61	55	51	71	61	55	51	60	54	50	59	54	50	58	53	50	49
10	68	58	51	47	67	57	51	47	56	51	47	56	51	47	55	50	47	45

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	179159	179159	179159
5°	174441	174441	174748
10°	163495	162874	163967
15°	149338	146793	149659
20°	132888	128142	133379
25°	115555	109109	116914
30°	97136	90031	98553
35°	75094	72093	76787
40°	46976	53800	47982
45°	24794	37405	25227
50°	15553	24402	15788
55°	11530	14210	11800
60°	8611	9843	8611
65°	6551	7641	6551
70°	5841	6294	5841
75°	5340	5340	5340
80°	4438	4438	4438
85°	3507	3507	3507



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.6	9.5
10°-20°	925.4	23.5
20°-30°	1083.8	27.5
30°-40°	865.8	22.0
40°-50°	411.6	10.4
50°-60°	161.8	4.1
60°-70°	72.0	1.8
70°-80°	34.4	0.9
80°-90°	9.4	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°	2384.8	60.5
0°-40°	3250.6	82.5
0°-60°	3824.0	97.1
0°-90°	3939.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3939.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4161	4161	4161	4161	4161	
5°	4036	4036	4036	4040	4043	376
15°	3350	3315	3293	3322	3358	934
25°	2432	2361	2297	2375	2461	1112
35°	1429	1375	1372	1393	1461	878
45°	407	489	614	496	414	345
55°	154	171	189	175	157	142
65°	64	68	75	68	64	67
75°	32	32	32	32	32	34
85°	7	7	7	7	7	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4161.1	4161.1	4161.1	4161.1	4161.1
2.5°	4129.0	4129.0	4125.4	4129.0	4129.0
5°	4036.1	4036.1	4036.1	4039.7	4043.2
7.5°	3900.4	3900.4	3893.2	3903.9	3907.5
10°	3739.6	3728.9	3725.4	3732.5	3750.4
12.5°	3550.3	3532.5	3514.6	3536.1	3561.1
15°	3350.3	3314.6	3293.2	3321.7	3357.5
17.5°	3128.9	3082.4	3050.3	3093.2	3139.6
20°	2900.3	2850.3	2796.7	2857.4	2911.0
22.5°	2664.5	2600.3	2546.7	2618.1	2693.1
25°	2432.4	2360.9	2296.7	2375.2	2461.0
27.5°	2193.1	2114.5	2050.2	2135.9	2228.8
30°	1953.8	1871.6	1810.9	1900.2	1982.3
32.5°	1696.6	1614.4	1585.9	1643.0	1721.6
35°	1428.7	1375.1	1371.6	1393.0	1460.9
37.5°	1153.7	1146.5	1157.3	1160.8	1160.8
40°	835.8	910.8	957.2	928.7	853.7
42.5°	578.6	682.2	767.9	692.9	596.5
45°	407.2	489.3	614.3	496.5	414.3
47.5°	296.5	360.7	485.8	364.3	300.0
50°	232.2	271.5	364.3	267.9	235.7
52.5°	189.3	214.3	260.7	214.3	192.9
55°	153.6	171.4	189.3	175.0	157.2
57.5°	128.6	139.3	142.9	142.9	128.6
60°	100.0	110.7	114.3	110.7	100.0
62.5°	75.0	85.7	92.9	89.3	75.0
65°	64.3	67.9	75.0	67.9	64.3
67.5°	57.1	57.1	60.7	57.1	57.1
70°	46.4	50.0	50.0	50.0	46.4
72.5°	39.3	39.3	39.3	39.3	39.3
75°	32.1	32.1	32.1	32.1	32.1
77.5°	25.0	25.0	25.0	25.0	25.0
80°	17.9	17.9	17.9	21.4	17.9
82.5°	14.3	14.3	14.3	14.3	14.3
85°	7.1	7.1	7.1	7.1	7.1
87.5°	3.6	3.6	3.6	3.6	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)