

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: P238247

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238247
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-20)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS640D010-S6M24-61SMDH-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, DEEP TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3941.3 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.95
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

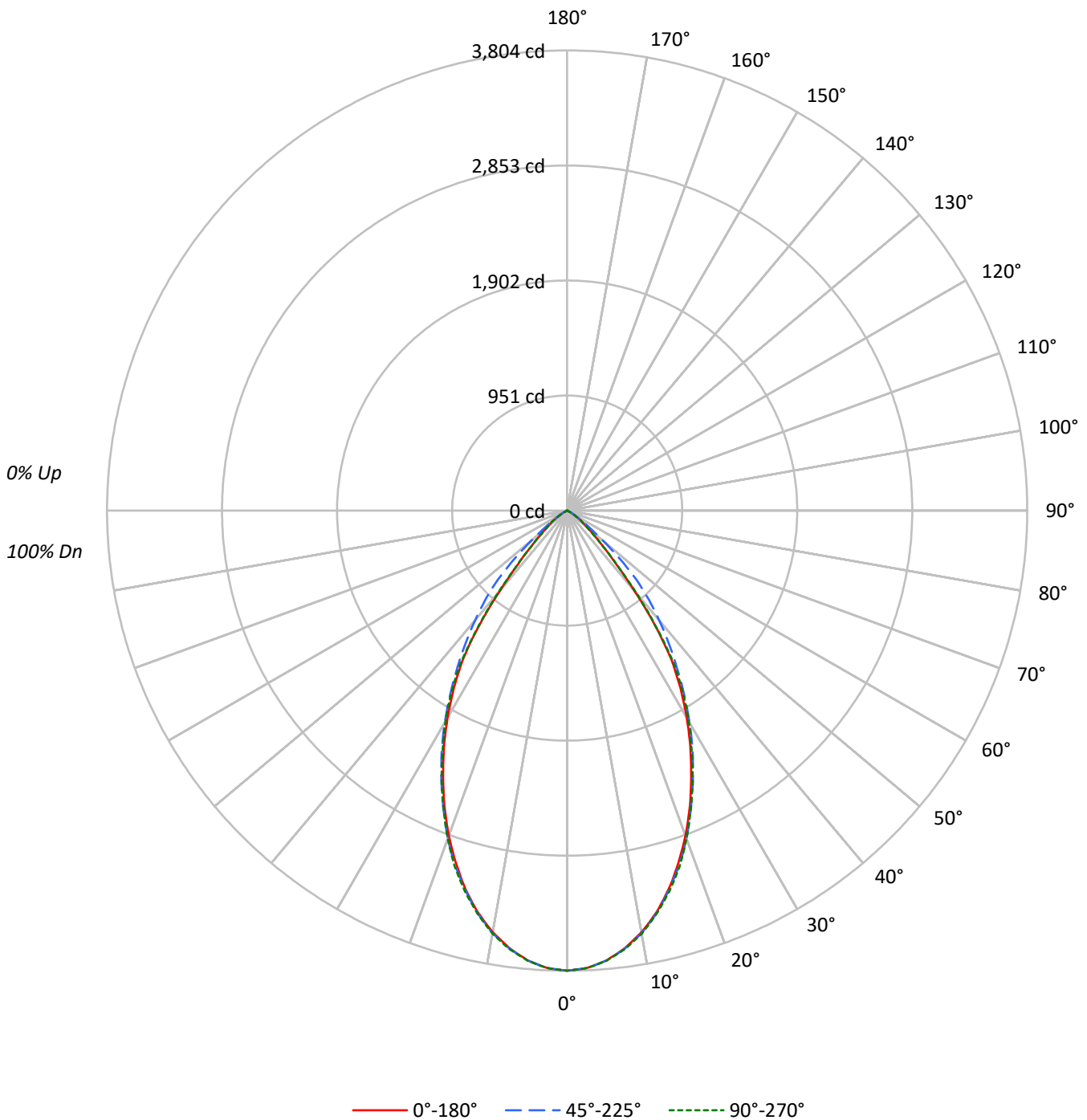
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	73	72
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	63	61
7	80	70	64	59	79	70	63	59	68	63	59	67	62	58	66	61	58	57
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52
9	72	62	55	51	71	61	55	51	60	55	51	59	54	50	58	54	50	49
10	68	58	52	48	67	57	51	47	57	51	47	56	51	47	55	50	47	46

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	163779	163779	163779
5°	161306	161306	161470
10°	154755	155087	155254
15°	144493	144831	145335
20°	131065	132275	132275
25°	115275	116890	116710
30°	98309	100561	100000
35°	78942	82910	80529
40°	48145	66390	49629
45°	25507	49400	25738
50°	14663	25527	14663
55°	9068	11050	9068
60°	3246	5201	3246
65°	764	1926	764
70°	478	478	478
75°	632	632	632
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.5	8.9
10°-20°	907.7	23.0
20°-30°	1120.4	28.4
30°-40°	956.8	24.3
40°-50°	457.9	11.6
50°-60°	128.8	3.3
60°-70°	16.8	0.4
70°-80°	2.5	0.1
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°	2378.6	60.3
0°-40°	3335.4	84.6
0°-60°	3922.0	99.5
0°-90°	3941.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3941.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3804	3804	3804	3804	3804	
5°	3732	3736	3732	3736	3736	350
15°	3242	3245	3249	3260	3260	904
25°	2426	2438	2460	2460	2457	1110
35°	1502	1558	1577	1577	1532	905
45°	419	521	811	524	423	352
55°	121	140	147	136	121	108
65°	8	8	19	8	8	12
75°	4	4	4	4	4	2
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°	3803.9	3803.9	3803.9	3803.9	3803.9
2.5°	3785.0	3785.0	3785.0	3785.0	3785.0
5°	3732.2	3736.0	3732.2	3736.0	3736.0
7.5°	3649.2	3653.0	3653.0	3656.7	3656.7
10°	3539.7	3543.5	3547.3	3547.3	3551.1
12.5°	3403.9	3403.9	3411.4	3415.2	3415.2
15°	3241.6	3245.4	3249.2	3260.5	3260.5
17.5°	3056.7	3064.3	3075.6	3079.4	3086.9
20°	2860.5	2860.5	2886.9	2883.1	2886.9
22.5°	2649.1	2660.5	2671.8	2679.3	2671.8
25°	2426.5	2437.8	2460.5	2460.5	2456.7
27.5°	2203.8	2215.2	2245.4	2234.0	2226.5
30°	1977.4	1988.7	2022.7	2003.8	2011.4
32.5°	1743.5	1777.4	1796.3	1796.3	1777.4
35°	1501.9	1558.5	1577.4	1577.4	1532.1
37.5°	1188.7	1324.6	1377.4	1335.9	1203.8
40°	856.6	1034.0	1181.2	1052.9	883.0
42.5°	600.0	751.0	1000.0	762.3	607.6
45°	418.9	520.8	811.3	524.5	422.7
47.5°	294.3	362.3	588.7	362.3	294.3
50°	218.9	256.6	381.1	252.8	218.9
52.5°	166.0	188.7	234.0	184.9	166.0
55°	120.8	139.6	147.2	135.9	120.8
57.5°	75.5	94.3	94.3	94.3	71.7
60°	37.7	52.8	60.4	52.8	37.7
62.5°	11.3	22.6	37.7	22.6	11.3
65°	7.5	7.5	18.9	7.5	7.5
67.5°	7.5	7.5	7.5	7.5	7.5
70°	3.8	3.8	3.8	3.8	3.8
72.5°	3.8	3.8	3.8	3.8	3.8
75°	3.8	3.8	3.8	3.8	3.8
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)