

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: P238292

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238292
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-23)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS640D010-S6M24-61SMDC-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM 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: 4028.2 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.87 / 0.9
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

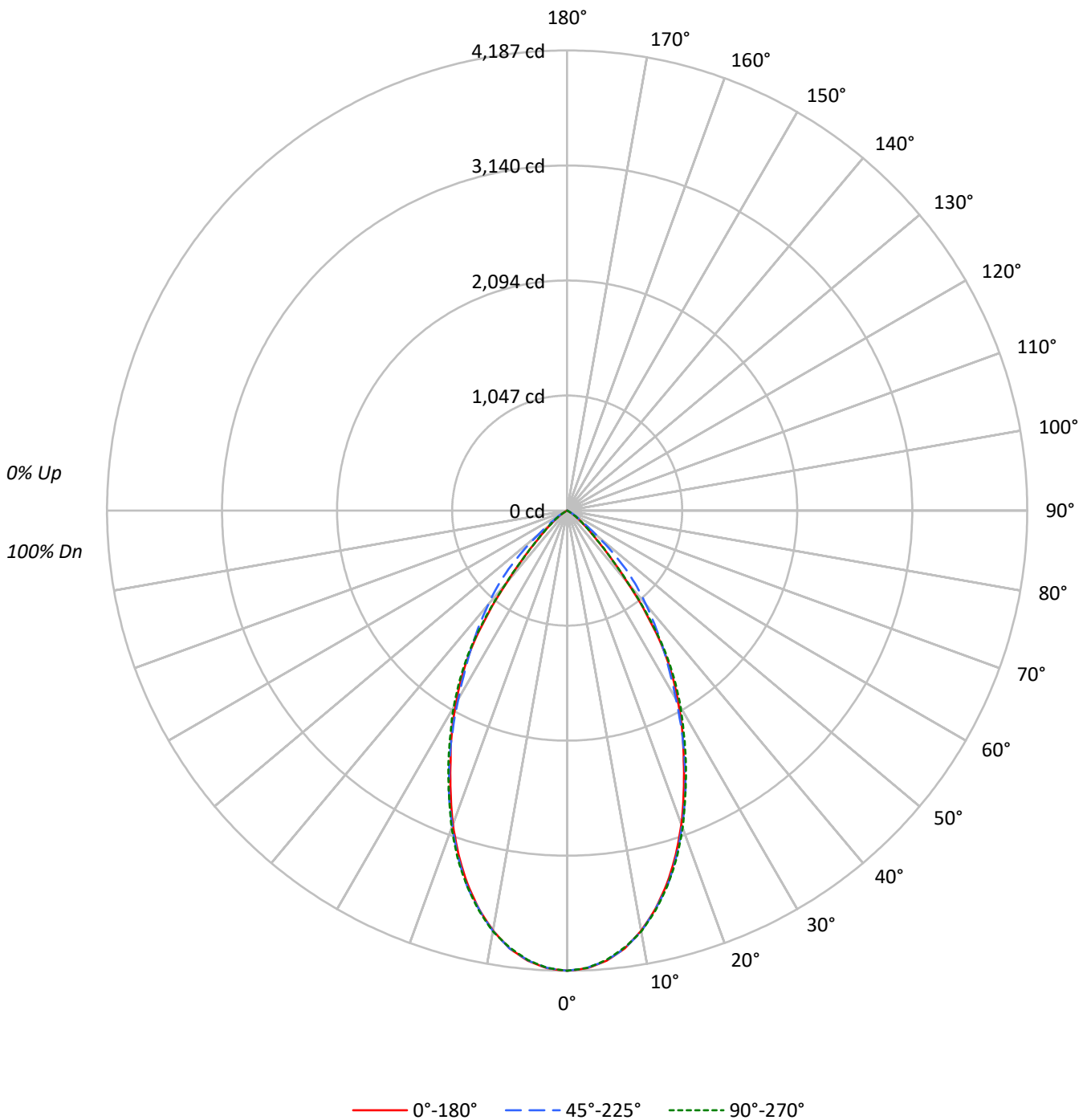
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93					93			
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86					86			
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79					79			
4	96	88	82	78	94	87	81	77	84	80	76	82	78	75	81	77	74	73					73			
5	91	82	76	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67					67			
6	86	76	70	65	84	75	69	65	74	69	65	72	68	64	71	67	64	62					62			
7	81	71	65	60	80	71	65	60	69	64	60	68	63	60	67	63	59	58					58			
8	77	67	60	56	76	66	60	56	65	60	56	64	59	55	63	59	55	54					54			
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50					50			
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48	47					47			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	180274	180274	180274
5°	177700	177540	177375
10°	169686	169852	170018
15°	156510	157352	157352
20°	139257	139949	140815
25°	119275	120353	121427
30°	100611	98359	102674
35°	79178	79578	80965
40°	48168	62601	49017
45°	24368	45978	24831
50°	13403	23263	13403
55°	7371	9638	7649
60°	1955	4228	1955
65°	0	1538	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°	385.1	9.6
10°-20°	981.5	24.4
20°-30°	1158.9	28.8
30°-40°	946.1	23.5
40°-50°	434.3	10.8
50°-60°	112.9	2.8
60°-70°	9.5	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°	2525.5	62.7
0°-40°	3471.6	86.2
0°-60°	4018.7	99.8
0°-90°	4028.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4028.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4187	4187	4187	4187	4187	
5°	4112	4112	4108	4108	4104	385
15°	3511	3519	3530	3534	3530	978
25°	2511	2507	2533	2548	2556	1153
35°	1506	1548	1514	1571	1540	913
45°	400	495	755	498	408	343
55°	98	121	128	121	102	92
65°	0	0	15	0	0	4
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°	4187.0	4187.0	4187.0	4187.0	4187.0
2.5°	4168.2	4168.2	4164.4	4164.4	4164.4
5°	4111.5	4111.5	4107.8	4107.8	4104.0
7.5°	4017.2	4017.2	4017.2	4013.4	4009.6
10°	3881.2	3881.2	3885.0	3885.0	3888.8
12.5°	3711.3	3715.1	3715.1	3722.7	3722.7
15°	3511.2	3518.8	3530.1	3533.9	3530.1
17.5°	3284.7	3292.3	3303.6	3318.7	3314.9
20°	3039.3	3043.1	3054.4	3077.0	3073.3
22.5°	2771.2	2778.8	2809.0	2816.5	2809.0
25°	2510.7	2506.9	2533.4	2548.5	2556.0
27.5°	2272.9	2254.0	2257.8	2280.4	2303.1
30°	2023.7	2016.1	1978.4	2038.8	2065.2
32.5°	1778.3	1782.0	1733.0	1797.1	1812.2
35°	1506.4	1548.0	1514.0	1570.6	1540.4
37.5°	1181.7	1295.0	1306.3	1313.9	1211.9
40°	857.0	1004.3	1113.8	1011.8	872.1
42.5°	596.5	717.3	940.1	732.5	592.8
45°	400.2	494.6	755.1	498.4	407.8
47.5°	279.4	332.2	547.5	336.0	279.4
50°	200.1	230.3	347.3	234.1	200.1
52.5°	147.2	166.1	211.4	166.1	147.2
55°	98.2	120.8	128.4	120.8	101.9
57.5°	60.4	79.3	83.1	79.3	56.6
60°	22.7	41.5	49.1	41.5	22.7
62.5°	3.8	11.3	30.2	15.1	3.8
65°	0.0	0.0	15.1	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)