

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: P253092

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253092
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1805-776-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS640D010-S6M24-61SWDMW-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3653.1 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

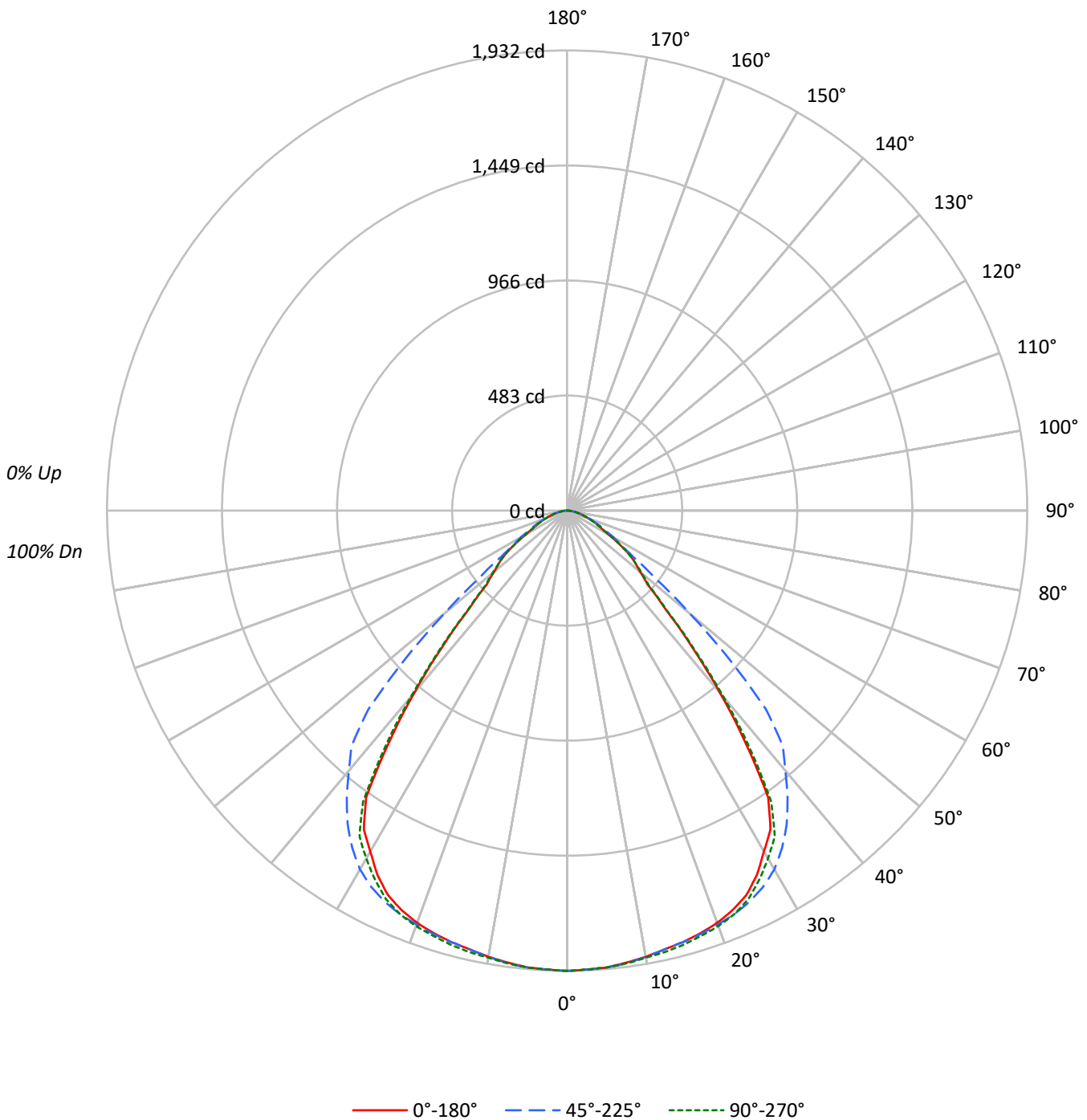
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89					89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	77	71	66	74	69	65	72	68	65	63					63			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56					56			
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51					51			
7	73	61	54	49	71	61	53	48	59	53	48	58	52	48	57	51	47	46					46			
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42					42			
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	40	38					38			
10	60	49	42	37	59	48	41	37	47	41	37	46	41	37	46	40	36	35					35			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	83201	83201	83201
5°	83194	83194	83194
10°	83164	83164	83330
15°	83608	83608	84112
20°	84385	84728	85076
25°	84619	86054	85517
30°	82161	86487	83852
35°	77323	84476	78516
40°	56115	80132	57385
45°	35231	71844	35919
50°	26853	45086	27356
55°	23563	25267	23563
60°	17257	19211	17257
65°	14253	15414	14253
70°	11896	12375	11896
75°	10064	10064	10064
80°	8430	8430	8430
85°	7460	7460	7460



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.0	5.0
10°-20°	531.6	14.6
20°-30°	827.2	22.6
30°-40°	945.3	25.9
40°-50°	632.4	17.3
50°-60°	302.7	8.3
60°-70°	147.5	4.0
70°-80°	66.4	1.8
80°-90°	17.0	0.5
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°	1541.8	42.2
0°-40°	2487.1	68.1
0°-60°	3422.2	93.7
0°-90°	3653.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3653.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1932	1932	1932	1932	1932	
5°	1925	1925	1925	1925	1925	183
15°	1876	1876	1876	1883	1887	530
25°	1781	1792	1811	1808	1800	815
35°	1471	1554	1607	1577	1494	874
45°	579	745	1180	756	590	480
55°	314	337	337	340	314	274
65°	140	144	151	144	140	140
75°	60	60	60	60	60	65
85°	15	15	15	15	15	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1932.4	1932.4	1932.4	1932.4	1932.4
2.5°	1928.6	1928.6	1928.6	1928.6	1928.6
5°	1924.9	1924.9	1924.9	1924.9	1924.9
7.5°	1913.5	1913.5	1917.3	1913.5	1917.3
10°	1902.2	1902.2	1902.2	1906.0	1906.0
12.5°	1887.0	1887.0	1887.0	1894.6	1898.4
15°	1875.7	1875.7	1875.7	1883.3	1887.0
17.5°	1860.6	1860.6	1864.4	1871.9	1871.9
20°	1841.7	1845.4	1849.2	1856.8	1856.8
22.5°	1815.2	1822.8	1834.1	1837.9	1834.1
25°	1781.2	1792.5	1811.4	1807.6	1800.1
27.5°	1724.4	1750.9	1781.2	1766.0	1747.1
30°	1652.6	1694.2	1739.6	1709.3	1686.6
32.5°	1588.3	1622.3	1679.1	1645.0	1622.3
35°	1471.1	1554.3	1607.2	1577.0	1493.8
37.5°	1232.8	1418.1	1520.2	1440.8	1263.1
40°	998.4	1195.0	1425.7	1210.1	1021.0
42.5°	775.2	964.3	1338.7	979.4	790.4
45°	578.6	745.0	1179.9	756.3	589.9
47.5°	457.6	552.1	918.9	563.5	465.1
50°	400.9	438.7	673.1	446.2	408.4
52.5°	359.3	381.9	468.9	385.7	359.3
55°	313.9	336.6	336.6	340.3	313.9
57.5°	253.4	287.4	264.7	287.4	257.2
60°	200.4	226.9	223.1	226.9	200.4
62.5°	162.6	177.7	181.5	177.7	162.6
65°	139.9	143.7	151.3	143.7	139.9
67.5°	117.2	121.0	121.0	121.0	113.4
70°	94.5	98.3	98.3	98.3	94.5
72.5°	75.6	79.4	79.4	79.4	75.6
75°	60.5	60.5	60.5	60.5	60.5
77.5°	45.4	49.2	45.4	49.2	45.4
80°	34.0	34.0	34.0	34.0	34.0
82.5°	22.7	22.7	22.7	22.7	22.7
85°	15.1	15.1	15.1	15.1	15.1
87.5°	7.6	7.6	7.6	7.6	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)