

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: P238005

Luminaire Tested: **PRS620D010-S6M12-64SNDMW-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238005
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-4)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS620D010-S6M12-64SNDMW-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SHALLOW 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: 2475.7 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.83 / 0.85
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

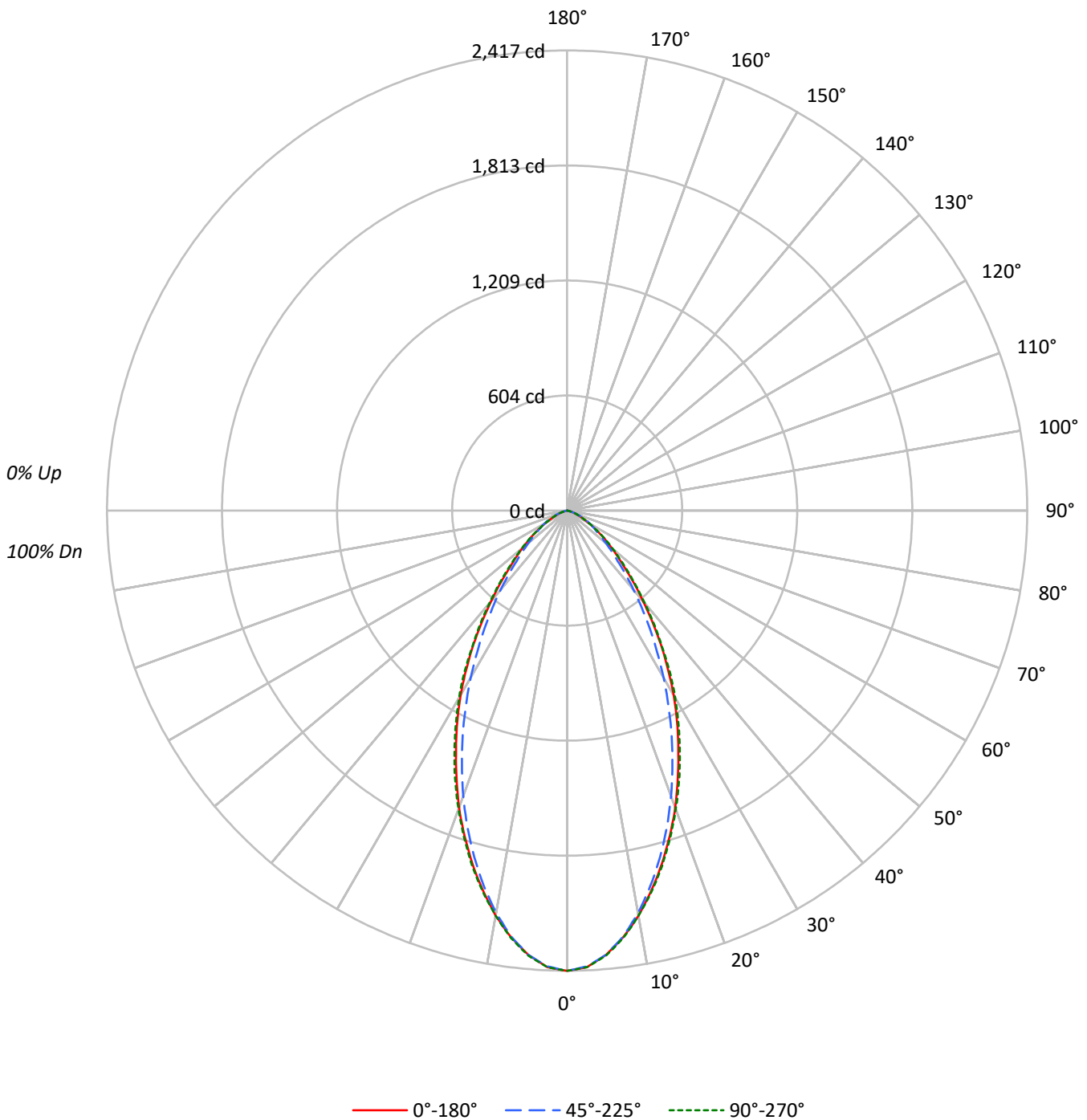
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82					82			
3	99	91	85	81	97	90	84	80	87	83	79	85	81	77	82	79	76	75					75			
4	93	84	77	72	91	83	77	72	81	75	71	78	74	70	76	73	69	68					68			
5	87	77	71	66	85	76	70	65	75	69	65	73	68	64	71	67	64	62					62			
6	82	72	65	60	81	71	64	60	69	64	59	68	63	59	66	62	58	57					57			
7	77	67	60	55	76	66	60	55	65	59	55	63	58	54	62	58	54	52					52			
8	73	62	56	51	72	62	55	51	61	55	50	59	54	50	58	54	50	48					48			
9	69	58	52	47	68	58	51	47	57	51	47	56	51	47	55	50	47	45					45			
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42					42			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	104083	104083	104083
5°	101213	101213	101399
10°	94457	93797	94457
15°	85623	83987	86011
20°	76050	73081	76444
25°	65621	61626	66547
30°	55583	50328	56443
35°	45040	39705	45492
40°	34813	30446	35544
45°	26286	22870	27206
50°	20383	17784	20966
55°	15554	14097	15876
60°	11341	11892	11341
65°	8140	9240	7916
70°	5703	6521	5703
75°	3227	3593	3227
80°	1066	1066	1066
85°	1087	1087	1087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.6	8.8
10°-20°	530.8	21.4
20°-30°	613.6	24.8
30°-40°	503.4	20.3
40°-50°	318.1	12.9
50°-60°	180.6	7.3
60°-70°	85.8	3.5
70°-80°	23.9	1.0
80°-90°	1.8	0.1
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°	1362.1	55.0
0°-40°	1865.4	75.4
0°-60°	2364.2	95.5
0°-90°	2475.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2475.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2417	2417	2417	2417	2417	
5°	2342	2342	2342	2348	2346	218
15°	1921	1906	1884	1910	1930	536
25°	1381	1332	1297	1342	1401	634
35°	857	794	755	807	866	534
45°	432	397	376	404	447	341
55°	207	199	188	203	212	188
65°	80	84	91	84	78	81
75°	19	22	22	22	19	22
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2417.4	2417.4	2417.4	2417.4	2417.4
2.5°	2400.1	2397.9	2395.8	2397.9	2400.1
5°	2341.8	2341.8	2341.8	2348.3	2346.1
7.5°	2259.8	2257.6	2255.5	2262.0	2264.1
10°	2160.5	2151.9	2145.4	2156.2	2160.5
12.5°	2044.0	2033.2	2020.2	2035.3	2050.4
15°	1920.9	1905.8	1884.2	1910.1	1929.6
17.5°	1791.4	1763.4	1741.8	1769.9	1800.1
20°	1659.8	1625.2	1595.0	1625.2	1668.4
22.5°	1519.5	1474.2	1443.9	1482.8	1536.7
25°	1381.3	1331.7	1297.2	1342.5	1400.8
27.5°	1249.7	1189.3	1150.4	1202.2	1267.0
30°	1118.0	1053.3	1012.3	1064.1	1135.3
32.5°	984.2	921.6	878.5	934.6	1003.6
35°	856.9	794.3	755.4	807.2	865.5
37.5°	731.7	673.4	643.2	684.2	748.9
40°	619.4	567.6	541.7	578.4	632.4
42.5°	522.3	474.8	453.3	483.5	535.3
45°	431.7	397.1	375.6	403.6	446.8
47.5°	362.6	332.4	315.1	338.9	373.4
50°	304.3	280.6	265.5	284.9	313.0
52.5°	254.7	235.3	222.3	239.6	261.2
55°	207.2	198.6	187.8	202.9	211.5
57.5°	164.0	161.9	161.9	164.0	166.2
60°	131.7	131.7	138.1	133.8	131.7
62.5°	101.4	105.8	116.6	105.8	101.4
65°	79.9	84.2	90.7	84.2	77.7
67.5°	60.4	64.8	69.1	64.8	58.3
70°	45.3	49.6	51.8	49.6	45.3
72.5°	32.4	34.5	34.5	34.5	30.2
75°	19.4	21.6	21.6	21.6	19.4
77.5°	6.5	10.8	10.8	10.8	6.5
80°	4.3	4.3	4.3	4.3	4.3
82.5°	2.2	2.2	2.2	2.2	2.2
85°	2.2	2.2	2.2	2.2	2.2
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)