

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: P238000

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238000
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
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SHALLOW TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2489.8 lumens
Efficiency: N/A
Efficacy: 124.5 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

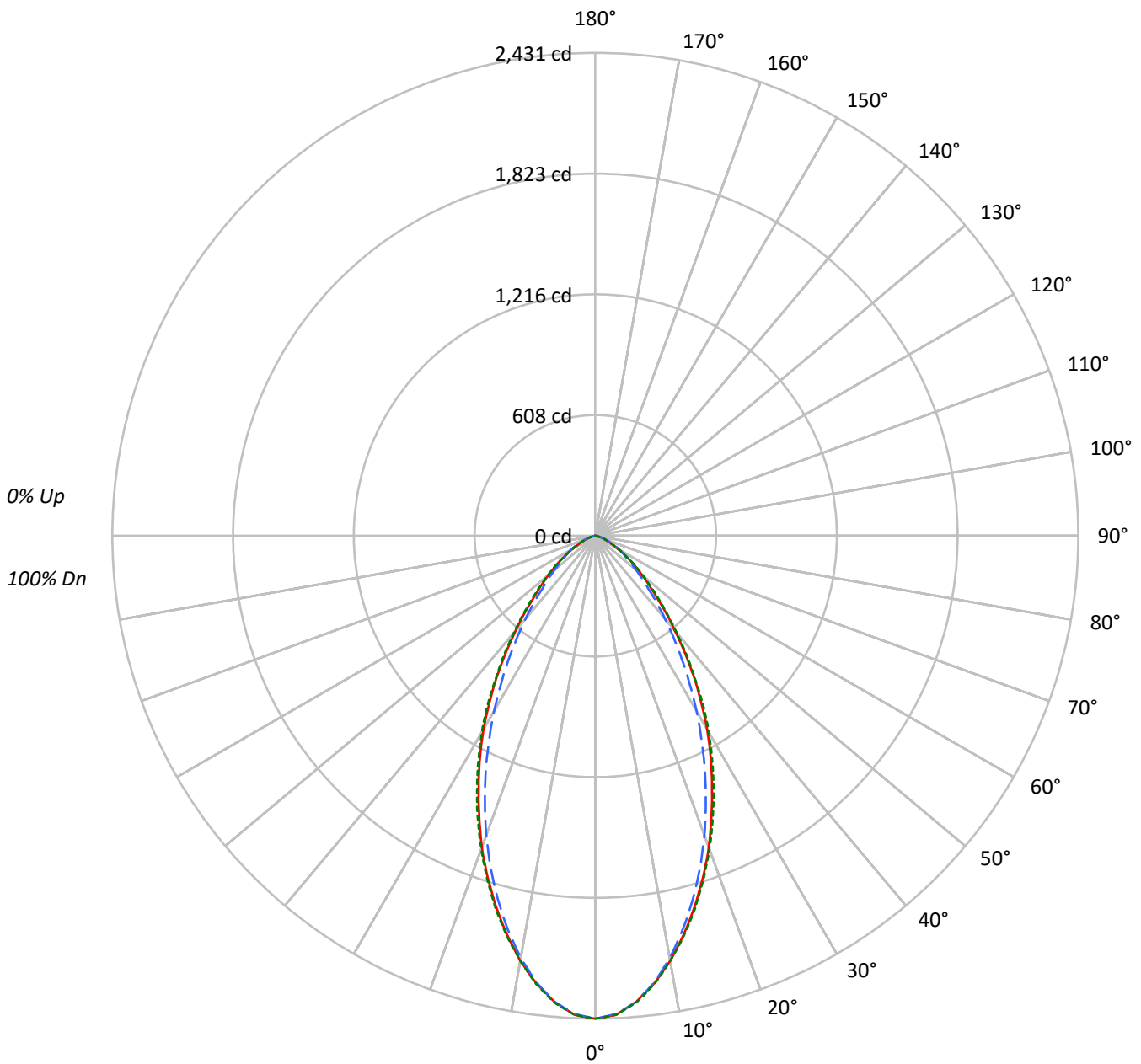
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° ···· 90°-270°



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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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82
3	99	91	85	81	97	90	84	80	87	83	79	85	81	77	82	79	76	75
4	93	84	77	72	91	83	77	72	81	75	71	78	74	70	76	73	69	68
5	87	77	71	66	85	76	70	65	75	69	65	73	68	64	71	67	64	62
6	82	72	65	60	81	71	64	60	69	64	59	68	63	59	66	62	58	57
7	77	67	60	55	76	66	60	55	65	59	55	63	58	54	62	58	54	52
8	73	62	56	51	72	62	55	51	61	55	50	59	54	50	58	54	50	48
9	69	58	52	47	68	58	51	47	57	51	47	56	51	47	55	50	47	45
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	104677	104677	104677
5°	101792	101792	101982
10°	94999	94334	94999
15°	86113	84469	86501
20°	76485	73503	76884
25°	66001	61977	66927
30°	55901	50616	56766
35°	45297	39931	45755
40°	35016	30621	35746
45°	26432	22998	27358
50°	20503	17884	21086
55°	15644	14180	15966
60°	11401	11961	11401
65°	8181	9291	7957
70°	5740	6559	5740
75°	3244	3610	3244
80°	1066	1066	1066
85°	1087	1087	1087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.9	8.8
10°-20°	533.9	21.4
20°-30°	617.1	24.8
30°-40°	506.2	20.3
40°-50°	320.0	12.9
50°-60°	181.6	7.3
60°-70°	86.3	3.5
70°-80°	24.1	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°	1369.9	55.0
0°-40°	1876.1	75.4
0°-60°	2377.7	95.5
0°-90°	2489.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2489.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2431	2431	2431	2431	2431	
5°	2355	2355	2355	2362	2360	219
15°	1932	1917	1895	1921	1941	539
25°	1389	1339	1305	1350	1409	637
35°	862	799	760	812	870	537
45°	434	399	378	406	449	343
55°	208	200	189	204	213	189
65°	80	85	91	85	78	82
75°	20	22	22	22	20	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°	2431.2	2431.2	2431.2	2431.2	2431.2
2.5°	2413.8	2411.7	2409.5	2411.7	2413.8
5°	2355.2	2355.2	2355.2	2361.7	2359.6
7.5°	2272.7	2270.6	2268.4	2274.9	2277.1
10°	2172.9	2164.2	2157.7	2168.5	2172.9
12.5°	2055.7	2044.8	2031.8	2047.0	2062.2
15°	1931.9	1916.7	1895.0	1921.1	1940.6
17.5°	1801.7	1773.5	1751.8	1780.0	1810.4
20°	1669.3	1634.5	1604.2	1634.5	1678.0
22.5°	1528.2	1482.6	1452.2	1491.3	1545.5
25°	1389.3	1339.3	1304.6	1350.2	1408.8
27.5°	1256.8	1196.1	1157.0	1209.1	1274.2
30°	1124.4	1059.3	1018.1	1070.2	1141.8
32.5°	989.8	926.9	883.5	939.9	1009.4
35°	861.8	798.8	759.7	811.8	870.5
37.5°	735.9	677.3	646.9	688.1	753.2
40°	623.0	570.9	544.8	581.7	636.0
42.5°	525.3	477.6	455.8	486.2	538.3
45°	434.1	399.4	377.7	405.9	449.3
47.5°	364.7	334.3	316.9	340.8	375.5
50°	306.1	282.2	267.0	286.5	314.8
52.5°	256.1	236.6	223.6	240.9	262.7
55°	208.4	199.7	188.9	204.0	212.7
57.5°	165.0	162.8	162.8	165.0	167.1
60°	132.4	132.4	138.9	134.6	132.4
62.5°	102.0	106.4	117.2	106.4	102.0
65°	80.3	84.7	91.2	84.7	78.1
67.5°	60.8	65.1	69.5	65.1	58.6
70°	45.6	49.9	52.1	49.9	45.6
72.5°	32.6	34.7	34.7	34.7	30.4
75°	19.5	21.7	21.7	21.7	19.5
77.5°	6.5	10.9	10.9	10.9	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)