

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: P238200

Luminaire Tested: **PRS620D010-S6M12-61SMDMW-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238200
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-17)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS620D010-S6M12-61SMDMW-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM 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: 2300.8 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.97 / 1.03
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

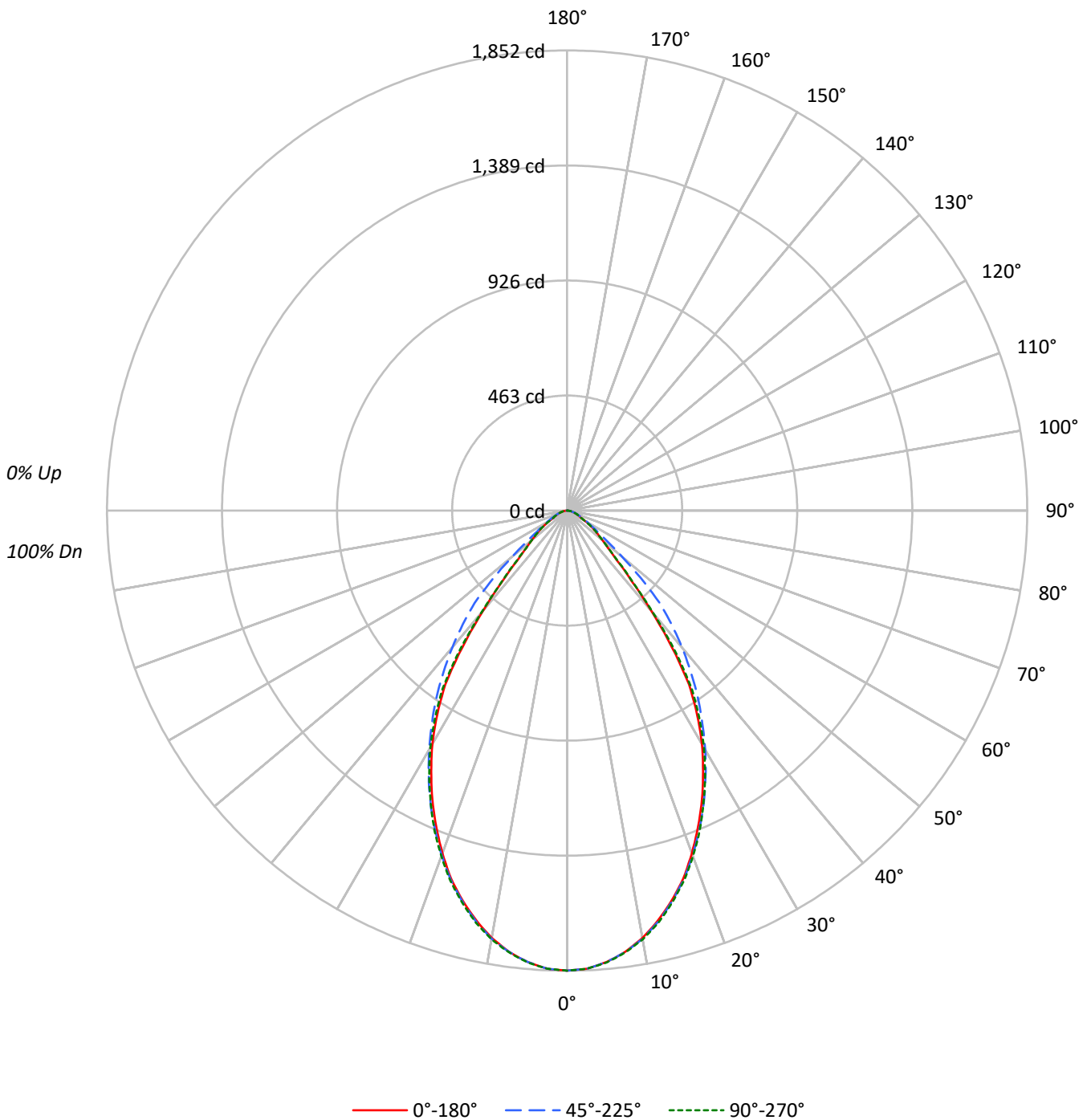
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82
3	99	91	85	80	97	90	84	80	87	82	79	84	81	77	82	79	76	74
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67
5	87	77	70	65	85	76	70	65	74	69	64	73	68	64	71	67	63	61
6	82	71	64	59	80	71	64	59	69	63	59	67	62	58	66	61	58	56
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52
8	73	62	55	50	71	61	55	50	60	54	50	59	53	49	58	53	49	48
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44
10	65	54	47	43	64	54	47	43	53	47	43	52	46	43	51	46	43	41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	79726	79726	79726
5°	78821	78821	78911
10°	76335	76523	76615
15°	72438	72630	72821
20°	67244	67638	67835
25°	61003	61825	61721
30°	53972	55260	54723
35°	44919	48209	45944
40°	29598	40395	30205
45°	17348	32065	17871
50°	12432	19083	12432
55°	9721	11342	9879
60°	7061	8181	7061
65°	5715	6378	5715
70°	4884	5161	5161
75°	4309	4309	4309
80°	3744	3744	3744
85°	3211	3211	3211



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.8	7.5
10°-20°	456.2	19.8
20°-30°	593.3	25.8
30°-40°	547.8	23.8
40°-50°	303.3	13.2
50°-60°	131.2	5.7
60°-70°	60.3	2.6
70°-80°	29.0	1.3
80°-90°	7.8	0.3
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°	1221.3	53.1
0°-40°	1769.1	76.9
0°-60°	2203.7	95.8
0°-90°	2300.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2300.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1852	1852	1852	1852	1852	
5°	1824	1826	1824	1826	1826	172
15°	1625	1627	1629	1634	1634	455
25°	1284	1288	1301	1304	1299	588
35°	855	887	917	898	874	516
45°	285	350	527	358	294	238
55°	130	145	151	145	132	116
65°	56	58	63	58	56	56
75°	26	28	26	28	26	28
85°	6	6	6	6	6	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1851.7	1851.7	1851.7	1851.7	1851.7
2.5°	1845.2	1845.2	1845.2	1845.2	1845.2
5°	1823.7	1825.8	1823.7	1825.8	1825.8
7.5°	1791.3	1793.4	1791.3	1793.4	1793.4
10°	1746.0	1746.0	1750.3	1750.3	1752.4
12.5°	1689.9	1692.0	1694.2	1696.3	1698.5
15°	1625.1	1627.3	1629.4	1633.7	1633.7
17.5°	1553.9	1551.7	1558.2	1558.2	1562.5
20°	1467.6	1471.9	1476.2	1478.4	1480.5
22.5°	1376.9	1381.2	1389.9	1392.0	1394.2
25°	1284.1	1288.4	1301.4	1303.5	1299.2
27.5°	1184.8	1195.6	1206.4	1204.3	1202.1
30°	1085.6	1092.0	1111.5	1105.0	1100.7
32.5°	973.3	994.9	1012.2	1003.6	990.6
35°	854.6	887.0	917.2	897.8	874.1
37.5°	692.8	776.9	815.8	785.6	714.4
40°	526.6	625.9	718.7	636.7	537.4
42.5°	384.2	474.8	621.6	485.6	390.6
45°	284.9	349.6	526.6	358.3	293.5
47.5°	222.3	267.6	401.4	267.6	224.5
50°	185.6	209.3	284.9	211.5	185.6
52.5°	155.4	172.7	202.9	172.7	155.4
55°	129.5	144.6	151.1	144.6	131.6
57.5°	103.6	118.7	116.5	118.7	105.8
60°	82.0	92.8	95.0	92.8	82.0
62.5°	62.6	71.2	77.7	71.2	62.6
65°	56.1	58.3	62.6	58.3	56.1
67.5°	47.5	49.6	49.6	49.6	47.5
70°	38.8	41.0	41.0	41.0	41.0
72.5°	32.4	34.5	34.5	34.5	32.4
75°	25.9	28.1	25.9	28.1	25.9
77.5°	19.4	21.6	21.6	21.6	21.6
80°	15.1	15.1	15.1	15.1	15.1
82.5°	10.8	10.8	10.8	10.8	10.8
85°	6.5	6.5	6.5	6.5	6.5
87.5°	4.3	4.3	2.2	4.3	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)