

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: P238195

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238195  
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  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, DEEP 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: 2313.9 lumens  
Efficiency: N/A  
Efficacy: 115.7 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

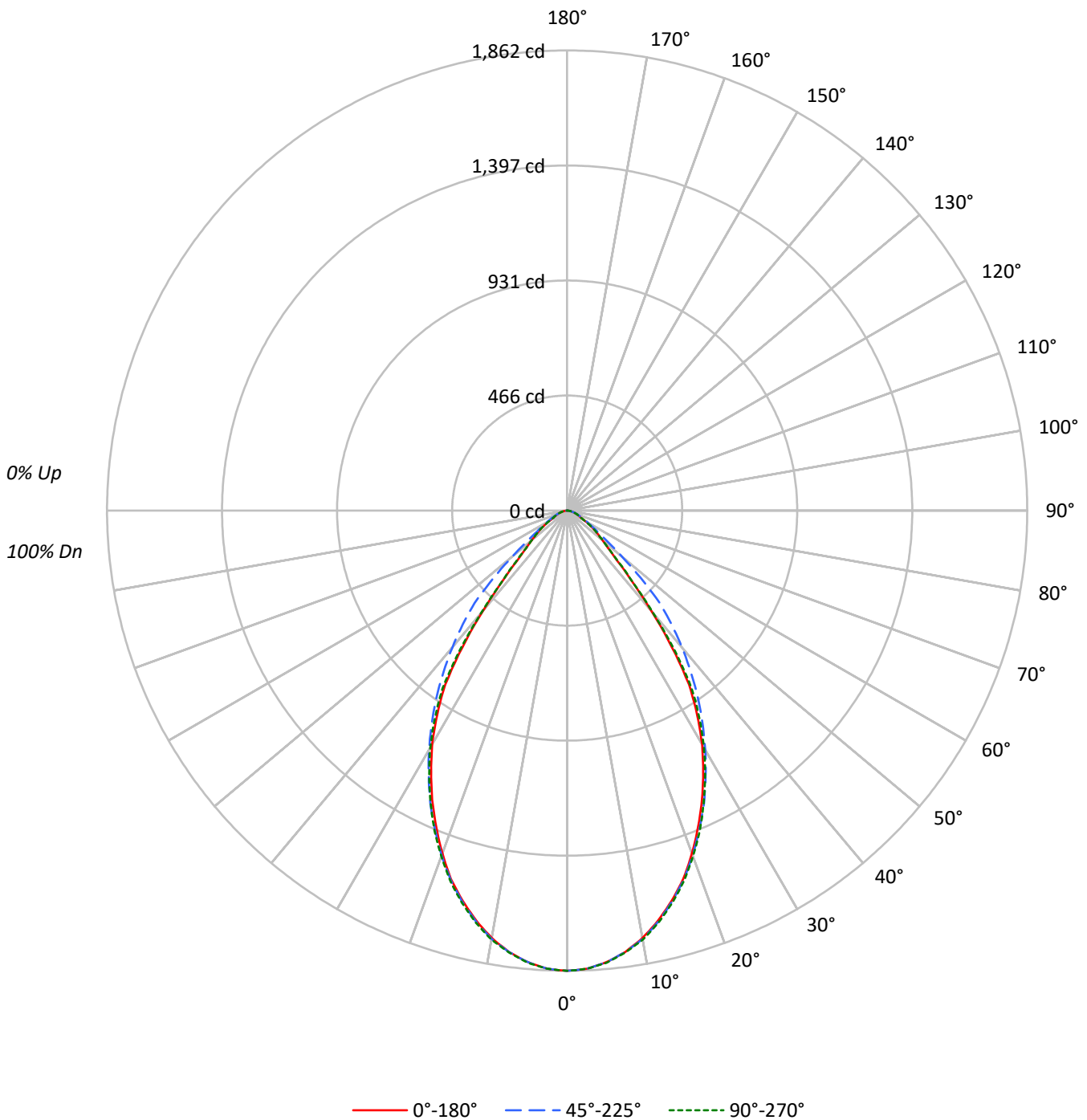
Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	80183	80183	80183
5°	79270	79270	79365
10°	76772	76960	77056
15°	72853	73044	73240
20°	67629	68023	68224
25°	61355	62177	62077
30°	54280	55573	55036
35°	45176	48488	46207
40°	29766	40625	30379
45°	17445	32247	17975
50°	12506	19191	12506
55°	9773	11402	9939
60°	7104	8224	7104
65°	5746	6408	5746
70°	4922	5187	5187
75°	4325	4325	4325
80°	3769	3769	3769
85°	3211	3211	3211



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.8	7.5
10°-20°	458.8	19.8
20°-30°	596.7	25.8
30°-40°	551.0	23.8
40°-50°	305.1	13.2
50°-60°	132.0	5.7
60°-70°	60.6	2.6
70°-80°	29.2	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°	1228.2	53.1
0°-40°	1779.2	76.9
0°-60°	2216.3	95.8
0°-90°	2313.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2313.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1862	1862	1862	1862	1862	
5°	1834	1836	1834	1836	1836	173
15°	1634	1637	1639	1643	1643	458
25°	1292	1296	1309	1311	1307	591
35°	860	892	922	903	879	519
45°	286	352	530	360	295	239
55°	130	145	152	145	132	117
65°	56	59	63	59	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°	1862.3	1862.3	1862.3	1862.3	1862.3
2.5°	1855.8	1855.8	1855.8	1855.8	1855.8
5°	1834.1	1836.3	1834.1	1836.3	1836.3
7.5°	1801.5	1803.7	1801.5	1803.7	1803.7
10°	1756.0	1756.0	1760.3	1760.3	1762.5
12.5°	1699.5	1701.7	1703.9	1706.0	1708.2
15°	1634.4	1636.6	1638.7	1643.1	1643.1
17.5°	1562.8	1560.6	1567.1	1567.1	1571.5
20°	1476.0	1480.3	1484.6	1486.8	1489.0
22.5°	1384.8	1389.1	1397.8	1400.0	1402.2
25°	1291.5	1295.8	1308.8	1311.0	1306.7
27.5°	1191.6	1202.5	1213.3	1211.2	1209.0
30°	1091.8	1098.3	1117.8	1111.3	1107.0
32.5°	978.9	1000.6	1018.0	1009.3	996.3
35°	859.5	892.1	922.5	902.9	879.1
37.5°	696.7	781.4	820.5	790.1	718.4
40°	529.6	629.5	722.8	640.3	540.5
42.5°	386.4	477.5	625.1	488.4	392.9
45°	286.5	351.6	529.6	360.3	295.2
47.5°	223.6	269.1	403.7	269.1	225.7
50°	186.7	210.5	286.5	212.7	186.7
52.5°	156.3	173.6	204.0	173.6	156.3
55°	130.2	145.4	151.9	145.4	132.4
57.5°	104.2	119.4	117.2	119.4	106.4
60°	82.5	93.3	95.5	93.3	82.5
62.5°	62.9	71.6	78.1	71.6	62.9
65°	56.4	58.6	62.9	58.6	56.4
67.5°	47.8	49.9	49.9	49.9	47.8
70°	39.1	41.2	41.2	41.2	41.2
72.5°	32.6	34.7	34.7	34.7	32.6
75°	26.0	28.2	26.0	28.2	26.0
77.5°	19.5	21.7	21.7	21.7	21.7
80°	15.2	15.2	15.2	15.2	15.2
82.5°	10.9	10.9	10.9	10.9	10.9
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)