

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: P238235

Luminaire Tested: **PRS620D010-S6M12-61SMDH-3000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238235  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-20)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS620D010-S6M12-61SMDH-3000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, DEEP TRIM HAZE  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2169.6 lumens  
Efficiency: N/A  
Efficacy: 108.5 lumens/watt  
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.95  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

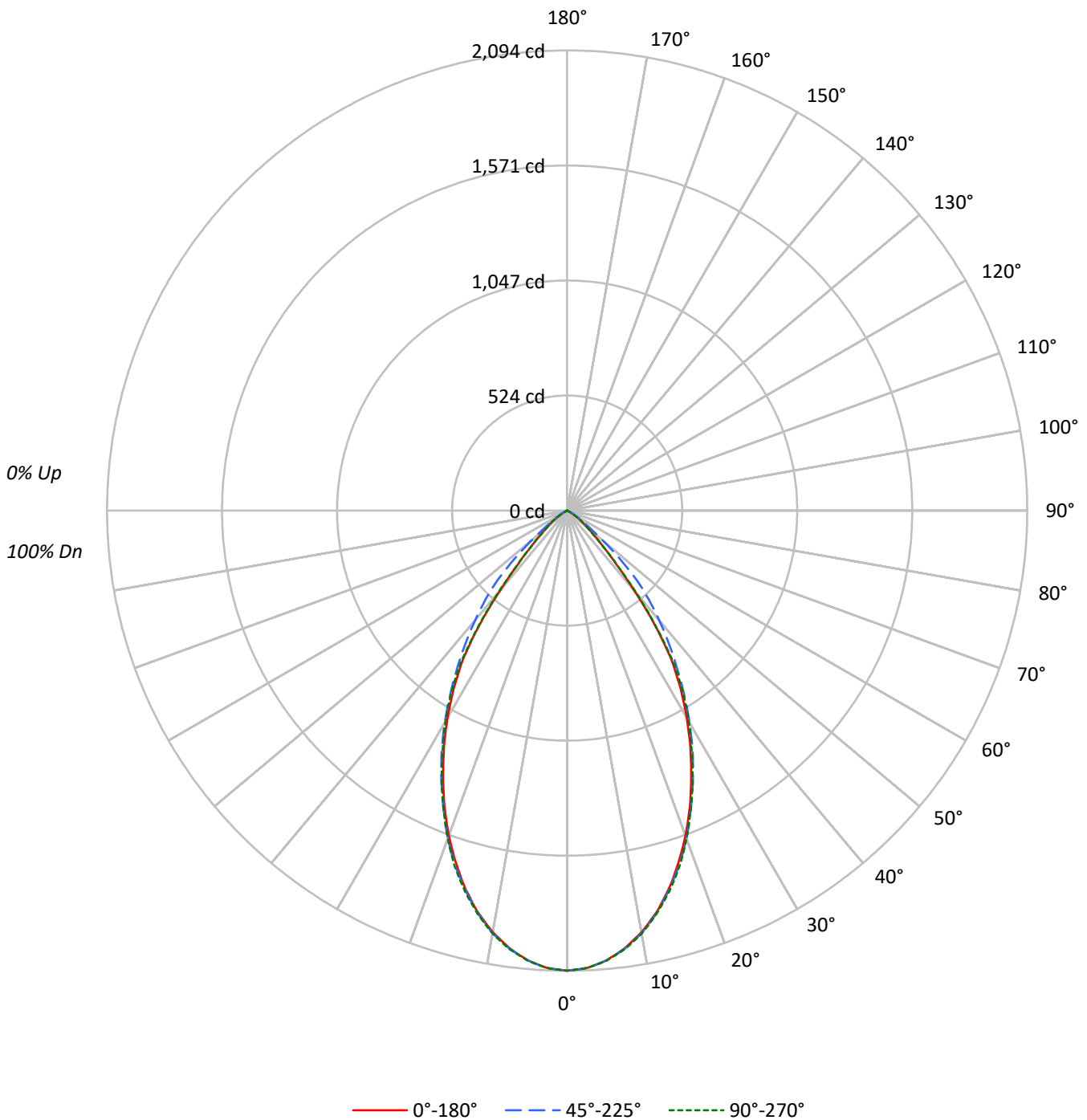
Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	110	108	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93					93			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85					85			
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78					78			
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	73	72					72			
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66					66			
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	63	61					61			
7	80	70	64	59	79	70	63	59	68	63	59	67	62	58	66	61	58	57					57			
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52					52			
9	72	62	55	51	71	61	55	51	60	55	51	59	54	50	58	54	50	49					49			
10	68	58	52	48	67	57	51	47	57	51	47	56	51	47	55	50	47	46					46			

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

	0°	45°	90°
0°	90150	90150	90150
5°	88791	88791	88878
10°	85184	85367	85459
15°	79534	79721	79998
20°	72142	72811	72811
25°	63455	64338	64243
30°	54116	55354	55046
35°	43452	45639	44330
40°	26501	36545	27321
45°	14041	27193	14163
50°	8071	14053	8071
55°	4992	6080	4992
60°	1791	2859	1791
65°	428	1060	428
70°	264	264	264
75°	349	349	349
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	192.9	8.9
10°-20°	499.6	23.0
20°-30°	616.7	28.4
30°-40°	526.7	24.3
40°-50°	252.1	11.6
50°-60°	70.9	3.3
60°-70°	9.3	0.4
70°-80°	1.4	0.1
80°-90°	0.0	0.0
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°	1309.3	60.3
0°-40°	1835.9	84.6
0°-60°	2158.9	99.5
0°-90°	2169.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2169.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2094	2094	2094	2094	2094	
5°	2054	2056	2054	2056	2056	193
15°	1784	1786	1788	1795	1795	498
25°	1336	1342	1354	1354	1352	611
35°	827	858	868	868	843	498
45°	231	287	447	289	233	194
55°	66	77	81	75	66	60
65°	4	4	10	4	4	6
75°	2	2	2	2	2	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2093.8	2093.8	2093.8	2093.8	2093.8
2.5°	2083.5	2083.5	2083.5	2083.5	2083.5
5°	2054.4	2056.4	2054.4	2056.4	2056.4
7.5°	2008.7	2010.7	2010.7	2012.8	2012.8
10°	1948.4	1950.5	1952.6	1952.6	1954.7
12.5°	1873.7	1873.7	1877.8	1879.9	1879.9
15°	1784.3	1786.4	1788.5	1794.7	1794.7
17.5°	1682.5	1686.7	1692.9	1695.0	1699.2
20°	1574.5	1574.5	1589.1	1587.0	1589.1
22.5°	1458.2	1464.4	1470.7	1474.8	1470.7
25°	1335.7	1341.9	1354.3	1354.3	1352.3
27.5°	1213.1	1219.3	1235.9	1229.7	1225.6
30°	1088.5	1094.7	1113.4	1103.0	1107.2
32.5°	959.7	978.4	988.8	988.8	978.4
35°	826.7	857.9	868.3	868.3	843.4
37.5°	654.3	729.1	758.2	735.3	662.6
40°	471.5	569.2	650.2	579.5	486.1
42.5°	330.3	413.4	550.5	419.6	334.4
45°	230.6	286.7	446.6	288.7	232.6
47.5°	162.0	199.4	324.0	199.4	162.0
50°	120.5	141.3	209.8	139.2	120.5
52.5°	91.4	103.9	128.8	101.8	91.4
55°	66.5	76.9	81.0	74.8	66.5
57.5°	41.5	51.9	51.9	51.9	39.5
60°	20.8	29.1	33.2	29.1	20.8
62.5°	6.2	12.5	20.8	12.5	6.2
65°	4.2	4.2	10.4	4.2	4.2
67.5°	4.2	4.2	4.2	4.2	4.2
70°	2.1	2.1	2.1	2.1	2.1
72.5°	2.1	2.1	2.1	2.1	2.1
75°	2.1	2.1	2.1	2.1	2.1
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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)