

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: P238130

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238130  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-13)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS620D010-S6M12-61SNDMB-3000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, DEEP TRIM MATTE BLACK  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2003.2 lumens  
Efficiency: N/A  
Efficacy: 100.2 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

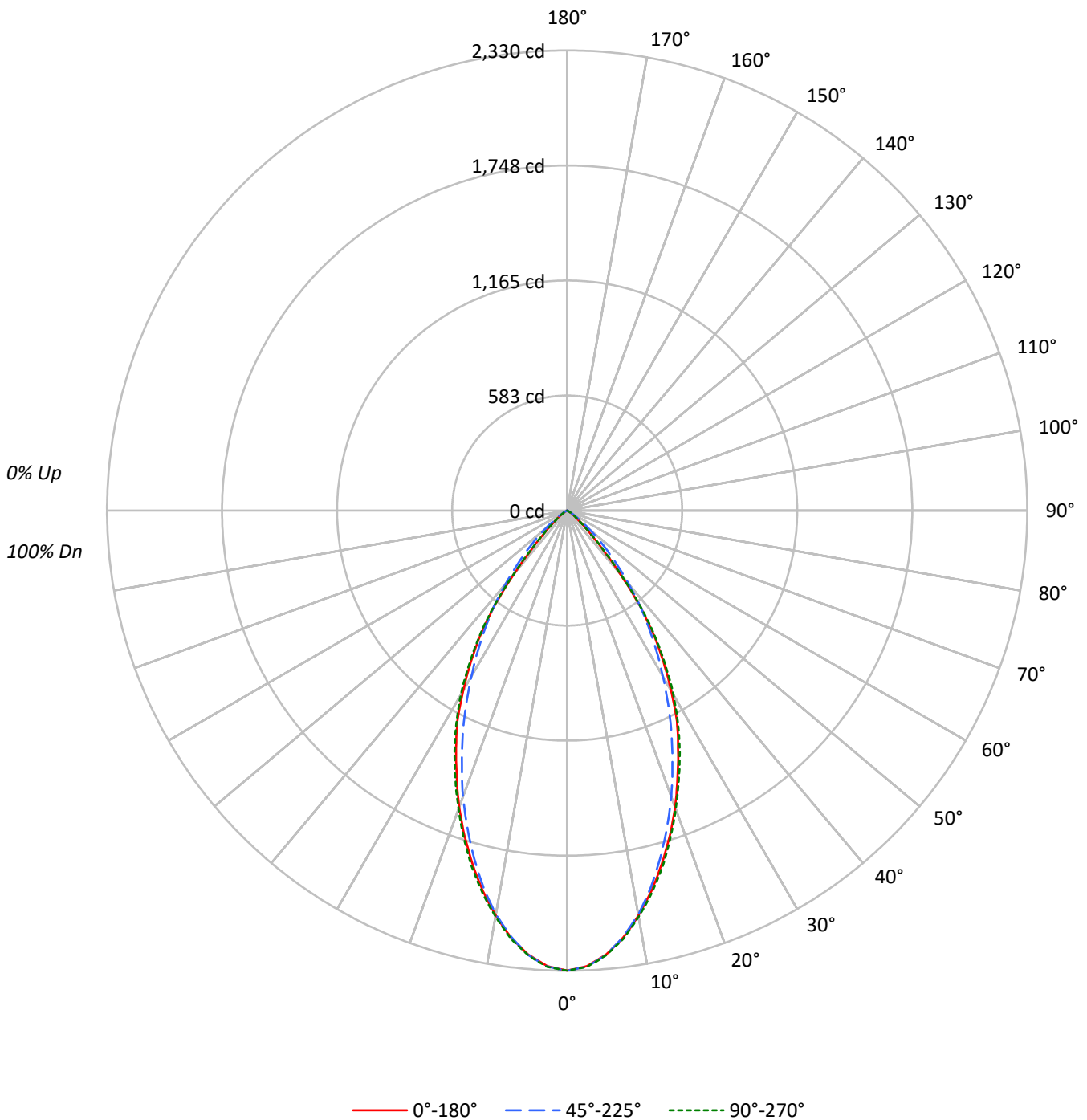
Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	111	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93					93			
2	108	103	98	95	105	101	97	94	98	94	92	95	92	90	92	90	88	86					86			
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	86	84	81	80					80			
4	96	89	83	79	95	87	82	78	85	81	77	83	79	76	81	78	75	74					74			
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	68					68			
6	87	77	71	67	85	77	71	66	75	70	66	74	69	66	72	68	65	64					64			
7	82	72	66	62	81	72	66	62	70	65	61	69	65	61	68	64	61	59					59			
8	78	68	62	58	77	67	62	58	66	61	57	65	61	57	64	60	57	55					55			
9	74	64	58	54	73	64	58	54	63	57	54	62	57	53	61	56	53	52					52			
10	70	60	55	51	69	60	54	50	59	54	50	58	54	50	58	53	50	49					49			

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

	0°	45°	90°
0°	100298	100298	100298
5°	97535	97626	97716
10°	91033	90762	91305
15°	82530	81143	83180
20°	73219	70648	73695
25°	63179	59431	64067
30°	52277	48145	53515
35°	39868	37681	40630
40°	23123	27097	23825
45°	10248	17713	10504
50°	4870	9880	4870
55°	2650	4054	2650
60°	896	1610	896
65°	0	428	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.9	10.5
10°-20°	512.4	25.6
20°-30°	590.8	29.5
30°-40°	455.5	22.7
40°-50°	186.9	9.3
50°-60°	44.0	2.2
60°-70°	3.7	0.2
70°-80°	0.0	0.0
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°	1313.1	65.5
0°-40°	1768.7	88.3
0°-60°	1999.6	99.8
0°-90°	2003.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2003.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2330	2330	2330	2330	2330	
5°	2257	2257	2259	2261	2261	210
15°	1852	1837	1820	1839	1866	517
25°	1330	1284	1251	1297	1349	608
35°	758	721	717	738	773	462
45°	168	218	291	224	172	148
55°	35	46	54	46	35	33
65°	0	0	4	0	0	1
75°	0	0	0	0	0	0
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°	2329.5	2329.5	2329.5	2329.5	2329.5
2.5°	2308.7	2310.8	2310.8	2312.8	2312.8
5°	2256.7	2256.7	2258.8	2260.9	2260.9
7.5°	2179.9	2177.8	2175.7	2179.9	2186.1
10°	2082.2	2076.0	2076.0	2080.1	2088.4
12.5°	1972.0	1961.7	1955.4	1963.7	1982.4
15°	1851.5	1837.0	1820.4	1839.1	1866.1
17.5°	1726.8	1706.1	1681.1	1708.1	1739.3
20°	1598.0	1564.8	1541.9	1571.0	1608.4
22.5°	1460.9	1425.5	1392.3	1435.9	1477.5
25°	1329.9	1284.2	1251.0	1296.7	1348.6
27.5°	1203.2	1142.9	1107.6	1157.5	1215.6
30°	1051.5	1007.8	968.4	1020.3	1076.4
32.5°	906.0	860.3	841.6	874.9	924.7
35°	758.5	721.1	716.9	737.7	773.0
37.5°	594.3	592.2	604.7	600.6	606.8
40°	411.4	461.3	482.1	465.5	423.9
42.5°	266.0	324.2	376.1	332.5	280.5
45°	168.3	218.2	290.9	224.4	172.5
47.5°	106.0	141.3	218.2	145.5	108.1
50°	72.7	93.5	147.5	93.5	72.7
52.5°	49.9	64.4	91.4	64.4	52.0
55°	35.3	45.7	54.0	45.7	35.3
57.5°	20.8	29.1	31.2	29.1	22.9
60°	10.4	16.6	18.7	16.6	10.4
62.5°	0.0	6.2	10.4	6.2	0.0
65°	0.0	0.0	4.2	0.0	0.0
67.5°	0.0	0.0	2.1	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
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)