

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: P238085

Luminaire Tested: **PRS620D010-S6M12-64SNDC-3000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238085  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-10)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS620D010-S6M12-64SNDC-3000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SHALLOW TRIM SPECULAR  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2364.8 lumens  
Efficiency: N/A  
Efficacy: 118.2 lumens/watt  
Spacing Criteria (0/90/45): 0.82 / 0.83 / 0.86  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

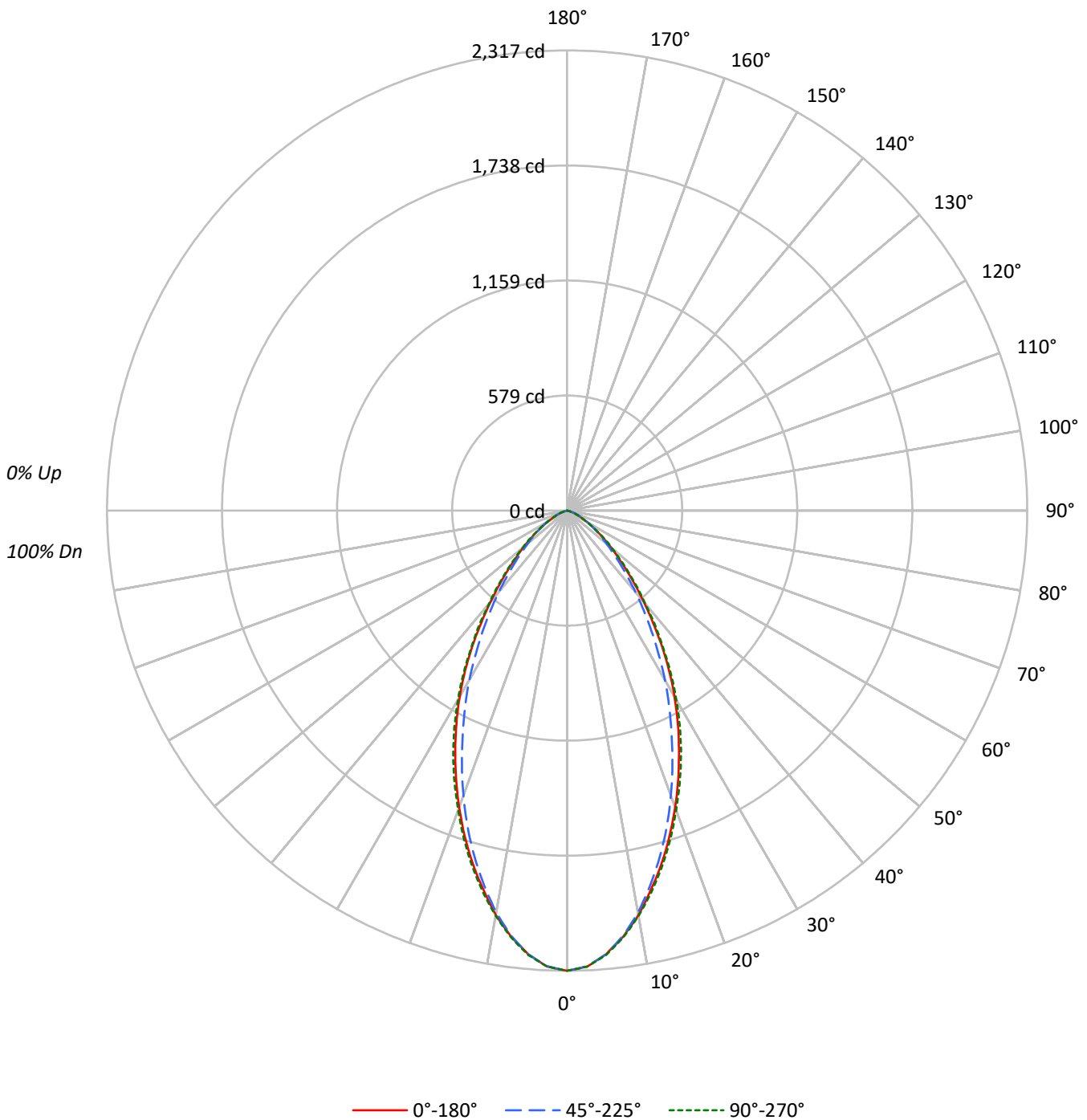
Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83					83			
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75					75			
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68					68			
5	88	78	71	66	86	77	70	66	75	69	65	73	68	65	72	67	64	62					62			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57					57			
7	78	67	60	55	76	66	60	55	65	59	55	64	59	55	63	58	54	53					53			
8	73	63	56	51	72	62	56	51	61	55	51	60	54	51	59	54	50	49					49			
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45					45			
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42					42			

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

	0°	45°	90°
0°	99764	99764	99764
5°	96912	96912	97090
10°	90400	89857	90583
15°	81977	80403	82534
20°	72843	69984	73507
25°	63284	59136	64467
30°	53724	48971	54653
35°	43689	38885	44236
40°	33757	30019	34341
45°	25434	22651	26317
50°	19211	17261	19907
55°	13887	13414	14352
60°	9843	10738	10023
65°	6775	7834	6775
70°	4444	5237	4444
75°	2079	2412	2079
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	208.4	8.8
10°-20°	508.4	21.5
20°-30°	591.4	25.0
30°-40°	489.3	20.7
40°-50°	308.6	13.1
50°-60°	167.9	7.1
60°-70°	73.8	3.1
70°-80°	16.9	0.7
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°	1308.3	55.3
0°-40°	1797.5	76.0
0°-60°	2274.1	96.2
0°-90°	2364.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2364.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2317	2317	2317	2317	2317	
5°	2242	2244	2242	2244	2246	208
15°	1839	1818	1804	1829	1852	513
25°	1332	1280	1245	1297	1357	611
35°	831	769	740	781	842	518
45°	418	384	372	391	432	328
55°	185	183	179	187	191	171
65°	66	73	77	73	66	69
75°	12	14	14	17	12	14
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°	2317.1	2317.1	2317.1	2317.1	2317.1
2.5°	2298.4	2296.3	2296.3	2298.4	2298.4
5°	2242.3	2244.4	2242.3	2244.4	2246.4
7.5°	2163.3	2161.2	2159.2	2165.4	2167.5
10°	2067.7	2061.5	2055.3	2065.6	2071.9
12.5°	1953.4	1943.0	1932.6	1949.3	1965.9
15°	1839.1	1818.4	1803.8	1828.7	1851.6
17.5°	1716.5	1689.5	1668.7	1697.8	1731.1
20°	1589.8	1554.4	1527.4	1562.7	1604.3
22.5°	1460.9	1417.3	1384.0	1429.7	1481.7
25°	1332.1	1280.1	1244.8	1296.7	1357.0
27.5°	1207.4	1147.1	1111.8	1161.7	1230.2
30°	1080.6	1018.3	985.0	1034.9	1099.3
32.5°	955.9	893.6	856.2	906.1	972.6
35°	831.2	768.9	739.8	781.4	841.6
37.5°	706.6	654.6	631.7	667.1	727.3
40°	600.6	552.8	534.1	561.1	611.0
42.5°	502.9	459.3	444.7	471.7	519.5
45°	417.7	384.5	372.0	390.7	432.2
47.5°	345.0	320.0	309.6	328.3	357.4
50°	286.8	268.1	257.7	272.2	297.2
52.5°	234.8	222.4	214.0	226.5	243.1
55°	185.0	182.9	178.7	187.0	191.2
57.5°	147.5	147.5	149.6	149.6	149.6
60°	114.3	118.5	124.7	120.5	116.4
62.5°	87.3	93.5	99.7	93.5	89.4
65°	66.5	72.7	76.9	72.7	66.5
67.5°	49.9	54.0	58.2	54.0	49.9
70°	35.3	39.5	41.6	39.5	35.3
72.5°	22.9	27.0	27.0	27.0	22.9
75°	12.5	14.5	14.5	16.6	12.5
77.5°	2.1	4.2	6.2	6.2	2.1
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)