

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: P238264

Luminaire Tested: **PRS615D010-S6M12-61SNDC-3000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238264  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-22)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS615D010-S6M12-61SNDC-3000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, DEEP TRIM SPECULAR  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1402.1 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 0.8 / 0.81  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

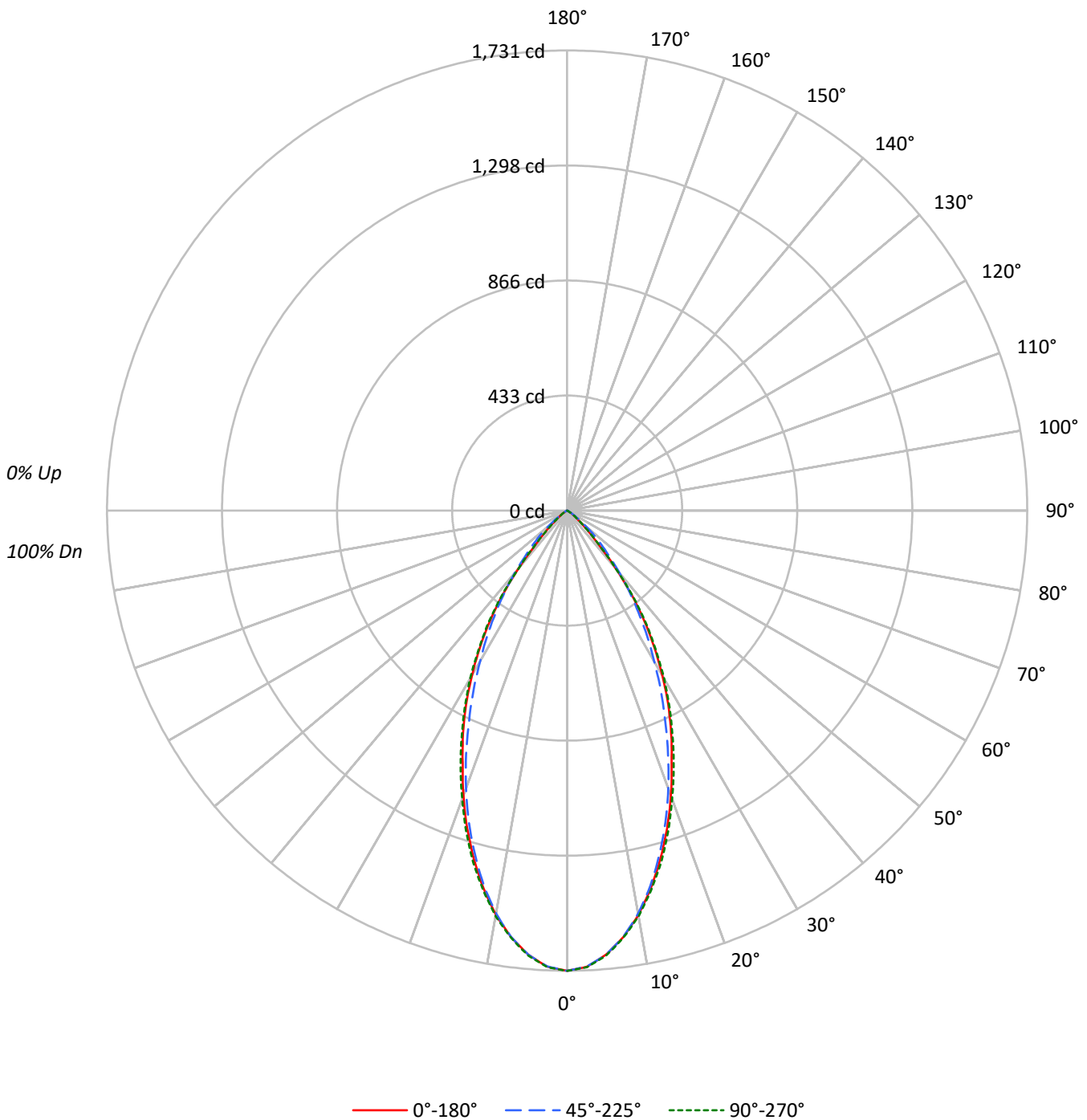
Input Watts (W): 12.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	74547	74547	74547
5°	72463	72463	72631
10°	67508	67285	67731
15°	60425	59743	60991
20°	52302	50960	52889
25°	44001	41459	44609
30°	35597	32495	36233
35°	26517	24578	27190
40°	15895	17188	15968
45°	7368	11094	7447
50°	3584	6229	3584
55°	1914	2582	1914
60°	654	1094	654
65°	0	387	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°	155.9	11.1
10°-20°	375.4	26.8
20°-30°	412.7	29.4
30°-40°	302.9	21.6
40°-50°	123.1	8.8
50°-60°	29.6	2.1
60°-70°	2.5	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°	944.0	67.3
0°-40°	1246.8	88.9
0°-60°	1399.5	99.8
0°-90°	1402.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1402.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1731	1731	1731	1731	1731	
5°	1677	1678	1677	1680	1680	156
15°	1356	1350	1340	1353	1368	377
25°	926	893	873	906	939	423
35°	504	480	468	489	517	310
45°	121	144	182	146	122	105
55°	26	31	34	31	26	24
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°	1731.4	1731.4	1731.4	1731.4	1731.4
2.5°	1717.4	1717.4	1716.1	1717.4	1718.7
5°	1676.6	1677.9	1676.6	1680.5	1680.5
7.5°	1618.0	1615.5	1616.8	1621.9	1620.6
10°	1544.1	1540.3	1539.0	1544.1	1549.2
12.5°	1455.0	1448.6	1446.0	1453.7	1461.3
15°	1355.6	1350.5	1340.3	1353.0	1368.3
17.5°	1251.1	1240.9	1229.5	1246.0	1263.9
20°	1141.5	1123.7	1112.2	1132.6	1154.3
22.5°	1026.9	1007.8	992.5	1020.5	1047.3
25°	926.2	893.1	872.7	905.8	939.0
27.5°	823.0	787.4	763.2	797.6	833.2
30°	716.0	680.3	653.6	693.1	728.8
32.5°	610.3	578.4	560.6	588.6	619.2
35°	504.5	480.3	467.6	489.2	517.3
37.5°	396.2	388.6	384.8	395.0	407.7
40°	282.8	301.9	305.8	307.0	284.1
42.5°	187.3	214.0	235.7	217.9	189.8
45°	121.0	144.0	182.2	146.5	122.3
47.5°	77.7	95.6	136.3	96.8	79.0
50°	53.5	63.7	93.0	63.7	53.5
52.5°	36.9	43.3	58.6	43.3	38.2
55°	25.5	30.6	34.4	30.6	25.5
57.5°	15.3	19.1	20.4	19.1	15.3
60°	7.6	11.5	12.7	11.5	7.6
62.5°	0.0	3.8	7.6	3.8	0.0
65°	0.0	0.0	3.8	0.0	0.0
67.5°	0.0	0.0	1.3	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)