

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: P238274

Luminaire Tested: **PRS615D010-S6M12-61SNDC-4000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238274  
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-4000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, DEEP TRIM SPECULAR  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1456.2 lumens  
Efficiency: N/A  
Efficacy: 115.6 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

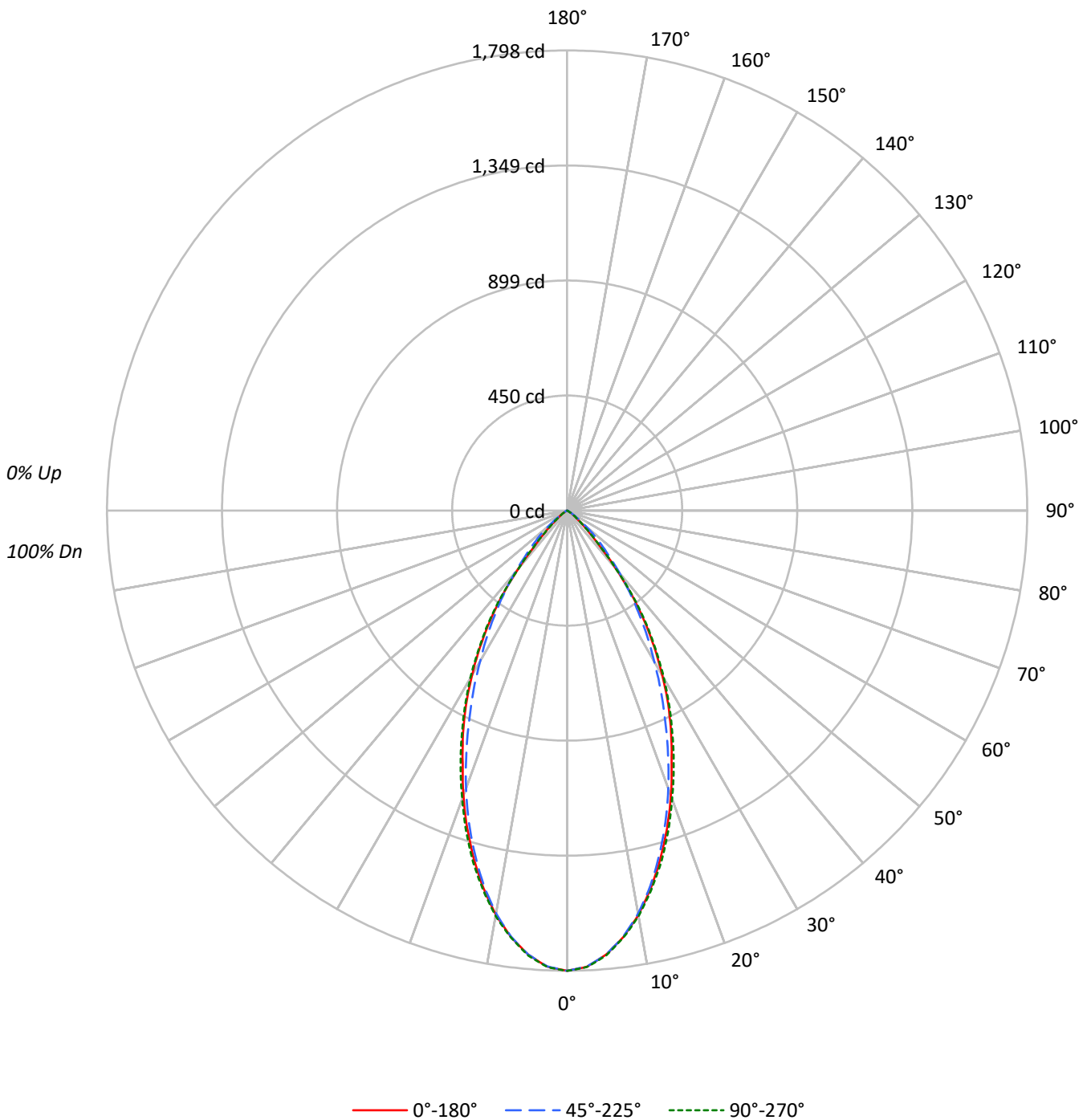
Input Watts (W): 12.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	77427	77427	77427
5°	75264	75264	75436
10°	70118	69886	70350
15°	62761	62052	63349
20°	54323	52930	54932
25°	45701	43060	46328
30°	36974	33747	37630
35°	27542	25524	28236
40°	16513	17851	16586
45°	7654	11520	7733
50°	3724	6471	3724
55°	1989	2680	1989
60°	680	1137	680
65°	0	408	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°	161.9	11.1
10°-20°	390.0	26.8
20°-30°	428.6	29.4
30°-40°	314.6	21.6
40°-50°	127.9	8.8
50°-60°	30.7	2.1
60°-70°	2.6	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°	980.4	67.3
0°-40°	1295.0	88.9
0°-60°	1453.6	99.8
0°-90°	1456.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1456.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1798	1798	1798	1798	1798	
5°	1741	1743	1741	1745	1745	162
15°	1408	1403	1392	1405	1421	392
25°	962	928	906	941	975	439
35°	524	499	486	508	537	322
45°	126	150	189	152	127	109
55°	26	32	36	32	26	25
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°	1798.3	1798.3	1798.3	1798.3	1798.3
2.5°	1783.8	1783.8	1782.4	1783.8	1785.1
5°	1741.4	1742.7	1741.4	1745.4	1745.4
7.5°	1680.5	1677.9	1679.2	1684.5	1683.2
10°	1603.8	1599.8	1598.5	1603.8	1609.1
12.5°	1511.2	1504.6	1501.9	1509.8	1517.8
15°	1408.0	1402.7	1392.1	1405.3	1421.2
17.5°	1299.4	1288.9	1276.9	1294.2	1312.7
20°	1185.6	1167.1	1155.2	1176.4	1198.9
22.5°	1066.6	1046.7	1030.8	1059.9	1087.7
25°	962.0	927.6	906.4	940.8	975.2
27.5°	854.8	817.8	792.6	828.4	865.4
30°	743.7	706.6	678.8	719.9	756.9
32.5°	633.8	600.8	582.2	611.3	643.1
35°	524.0	498.9	485.6	508.1	537.2
37.5°	411.5	403.6	399.6	410.2	423.4
40°	293.8	313.6	317.6	318.9	295.1
42.5°	194.5	222.3	244.8	226.3	197.2
45°	125.7	149.5	189.2	152.2	127.0
47.5°	80.7	99.2	141.6	100.6	82.0
50°	55.6	66.2	96.6	66.2	55.6
52.5°	38.4	45.0	60.9	45.0	39.7
55°	26.5	31.8	35.7	31.8	26.5
57.5°	15.9	19.8	21.2	19.8	15.9
60°	7.9	11.9	13.2	11.9	7.9
62.5°	0.0	4.0	7.9	4.0	0.0
65°	0.0	0.0	4.0	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)