

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: P238268

Luminaire Tested: **PRS610D010-S6M12-61SNDC**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238268  
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: PRS610D010-S6M12-61SNDC  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, DEEP TRIM SPECULAR  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

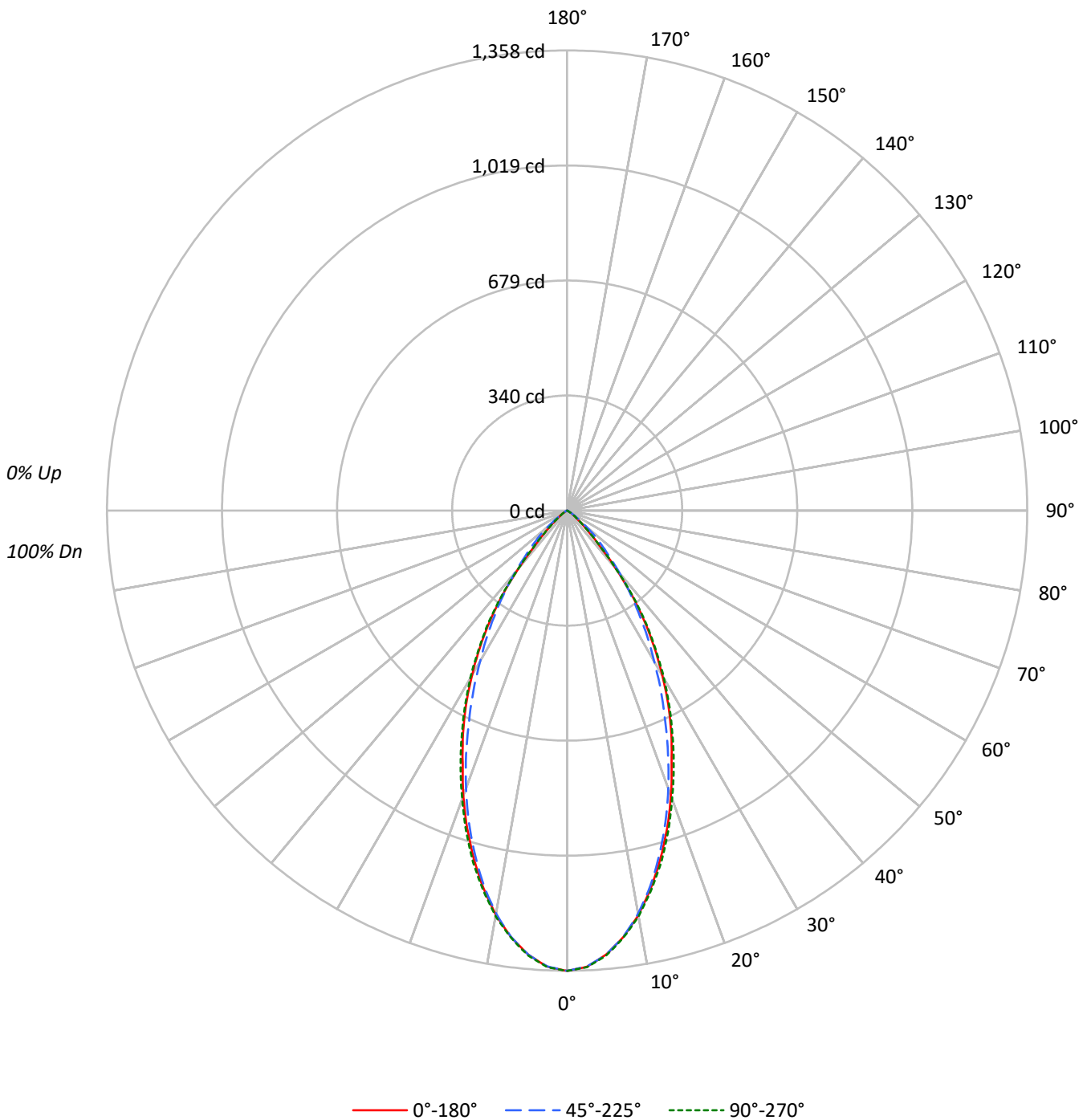
Lumens per Lamp: N/A  
Luminaire Lumens: 1100.0 lumens  
Efficiency: N/A  
Efficacy: 110.0 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 0.8 / 0.81  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 10  
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°	58487	58487	58487
5°	56852	56852	56981
10°	52967	52792	53141
15°	47405	46870	47851
20°	41035	39982	41494
25°	34523	32528	34998
30°	27926	25495	28423
35°	20804	19279	21329
40°	12472	13484	12528
45°	5785	8701	5845
50°	2813	4890	2813
55°	1501	2027	1501
60°	517	861	517
65°	0	306	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°	122.3	11.1
10°-20°	294.6	26.8
20°-30°	323.7	29.4
30°-40°	237.6	21.6
40°-50°	96.6	8.8
50°-60°	23.2	2.1
60°-70°	2.0	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°	740.6	67.3
0°-40°	978.2	88.9
0°-60°	1098.0	99.8
0°-90°	1100.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1100.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1358	1358	1358	1358	1358	
5°	1315	1316	1315	1318	1318	122
15°	1064	1060	1052	1062	1074	296
25°	727	701	685	711	737	332
35°	396	377	367	384	406	244
45°	95	113	143	115	96	82
55°	20	24	27	24	20	19
65°	0	0	3	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°	1358.4	1358.4	1358.4	1358.4	1358.4
2.5°	1347.4	1347.4	1346.4	1347.4	1348.4
5°	1315.4	1316.4	1315.4	1318.4	1318.4
7.5°	1269.4	1267.4	1268.4	1272.4	1271.4
10°	1211.5	1208.5	1207.5	1211.5	1215.5
12.5°	1141.5	1136.5	1134.5	1140.5	1146.5
15°	1063.5	1059.5	1051.5	1061.5	1073.5
17.5°	981.6	973.6	964.6	977.6	991.6
20°	895.6	881.6	872.6	888.6	905.6
22.5°	805.6	790.6	778.6	800.6	821.6
25°	726.7	700.7	684.7	710.7	736.7
27.5°	645.7	617.7	598.7	625.7	653.7
30°	561.7	533.8	512.8	543.8	571.7
32.5°	478.8	453.8	439.8	461.8	485.8
35°	395.8	376.8	366.8	383.8	405.8
37.5°	310.9	304.9	301.9	309.9	319.9
40°	221.9	236.9	239.9	240.9	222.9
42.5°	146.9	167.9	184.9	170.9	148.9
45°	95.0	112.9	142.9	114.9	96.0
47.5°	61.0	75.0	107.0	76.0	62.0
50°	42.0	50.0	73.0	50.0	42.0
52.5°	29.0	34.0	46.0	34.0	30.0
55°	20.0	24.0	27.0	24.0	20.0
57.5°	12.0	15.0	16.0	15.0	12.0
60°	6.0	9.0	10.0	9.0	6.0
62.5°	0.0	3.0	6.0	3.0	0.0
65°	0.0	0.0	3.0	0.0	0.0
67.5°	0.0	0.0	1.0	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)