

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: P238263

Luminaire Tested: **PRS610D010-S6M12-61SNDC-3000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238263  
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-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: 1053.1 lumens  
Efficiency: N/A  
Efficacy: 105.3 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

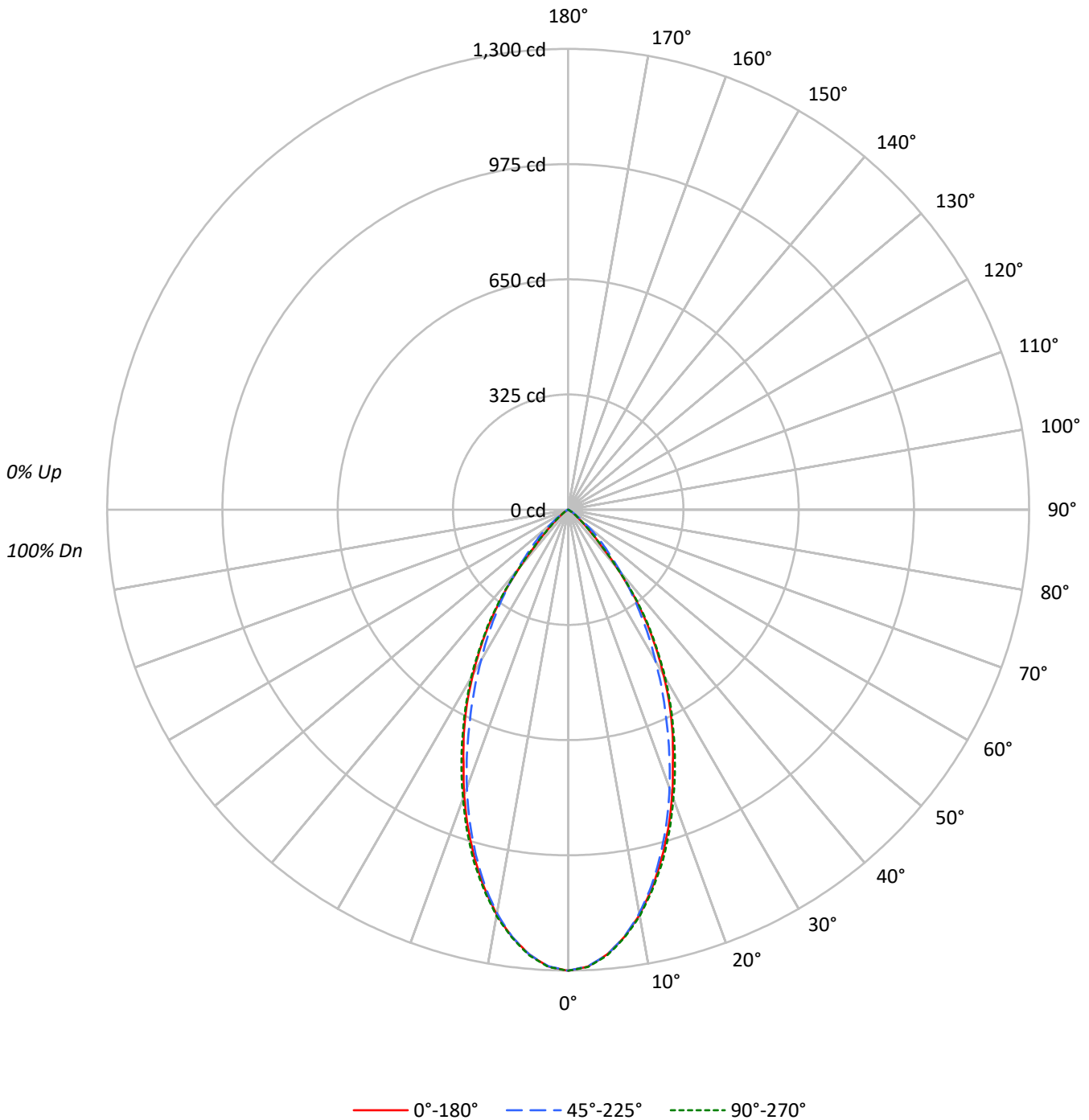
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	55990	55990	55990
5°	54427	54427	54548
10°	50706	50536	50872
15°	45381	44873	45809
20°	39285	38277	39720
25°	33050	31141	33502
30°	26737	24406	27210
35°	19915	18460	20420
40°	11938	12910	11994
45°	5535	8330	5596
50°	2693	4682	2693
55°	1434	1937	1434
60°	491	827	491
65°	0	295	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°	117.1	11.1
10°-20°	282.0	26.8
20°-30°	309.9	29.4
30°-40°	227.5	21.6
40°-50°	92.5	8.8
50°-60°	22.2	2.1
60°-70°	1.9	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°	709.0	67.3
0°-40°	936.5	88.9
0°-60°	1051.1	99.8
0°-90°	1053.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1053.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1300	1300	1300	1300	1300	
5°	1259	1260	1259	1262	1262	117
15°	1018	1014	1007	1016	1028	283
25°	696	671	656	680	705	318
35°	379	361	351	367	388	233
45°	91	108	137	110	92	79
55°	19	23	26	23	19	18
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°	1300.4	1300.4	1300.4	1300.4	1300.4
2.5°	1289.9	1289.9	1288.9	1289.9	1290.9
5°	1259.3	1260.2	1259.3	1262.1	1262.1
7.5°	1215.3	1213.3	1214.3	1218.1	1217.2
10°	1159.8	1156.9	1155.9	1159.8	1163.6
12.5°	1092.8	1088.0	1086.1	1091.8	1097.6
15°	1018.1	1014.3	1006.7	1016.2	1027.7
17.5°	939.7	932.0	923.4	935.8	949.2
20°	857.4	844.0	835.4	850.7	866.9
22.5°	771.3	756.9	745.4	766.5	786.6
25°	695.7	670.8	655.5	680.4	705.2
27.5°	618.2	591.4	573.2	599.0	625.8
30°	537.8	511.0	490.9	520.6	547.3
32.5°	458.4	434.4	421.0	442.1	465.1
35°	378.9	360.7	351.2	367.4	388.5
37.5°	297.6	291.9	289.0	296.6	306.2
40°	212.4	226.8	229.7	230.6	213.4
42.5°	140.7	160.8	177.0	163.6	142.6
45°	90.9	108.1	136.8	110.0	91.9
47.5°	58.4	71.8	102.4	72.7	59.3
50°	40.2	47.8	69.9	47.8	40.2
52.5°	27.7	32.5	44.0	32.5	28.7
55°	19.1	23.0	25.8	23.0	19.1
57.5°	11.5	14.4	15.3	14.4	11.5
60°	5.7	8.6	9.6	8.6	5.7
62.5°	0.0	2.9	5.7	2.9	0.0
65°	0.0	0.0	2.9	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)