

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: P238188

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238188  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-17)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS610D010-S6M12-61SMDMW-3000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, DEEP TRIM MATTE WHITE  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1020.5 lumens  
Efficiency: N/A  
Efficacy: 102.1 lumens/watt  
Spacing Criteria (0/90/45): 0.96 / 0.97 / 1.03  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

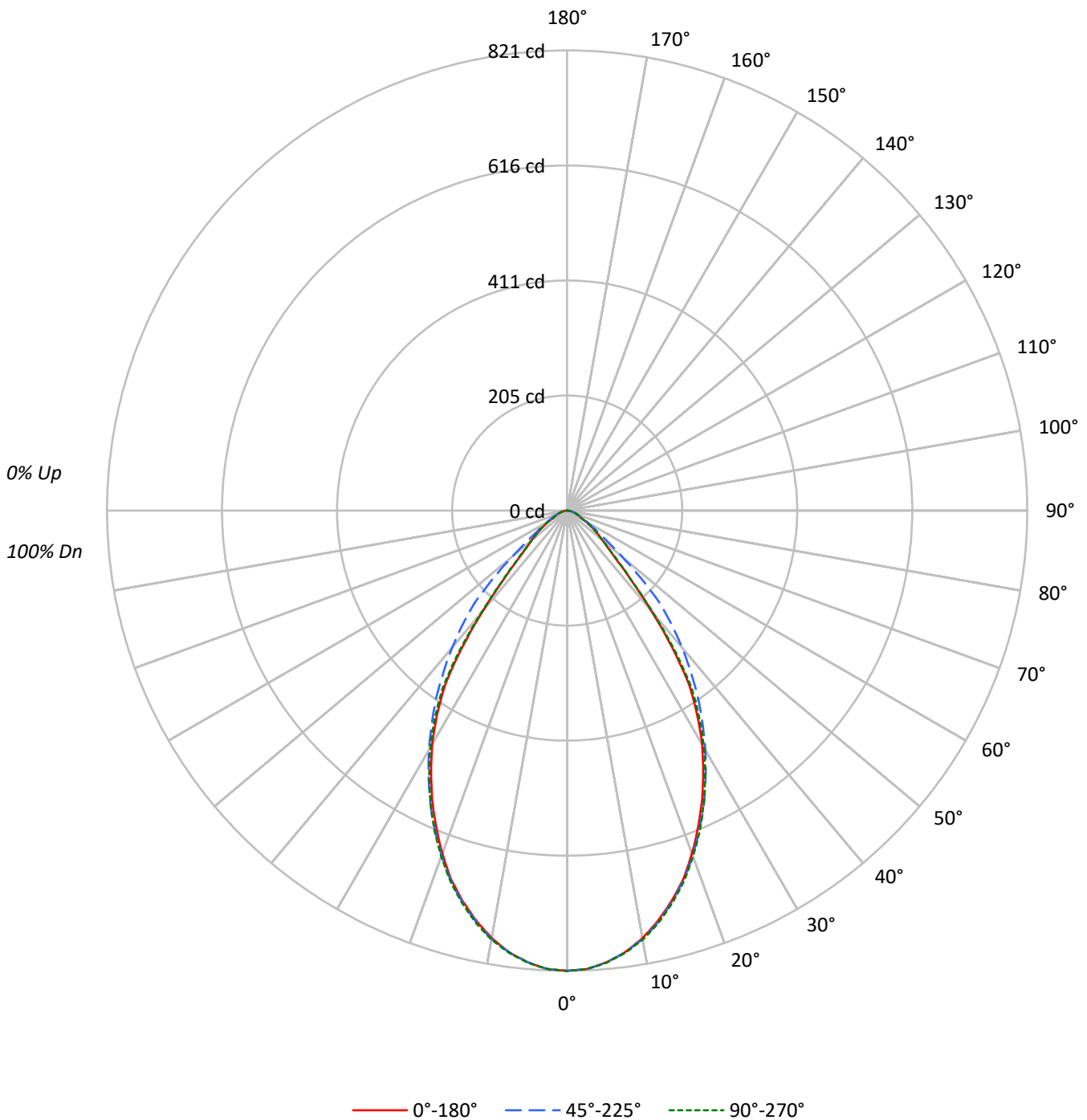
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91					91			
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82					82			
3	99	91	85	80	97	90	84	80	87	82	79	84	81	77	82	79	76	74					74			
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67					67			
5	87	77	70	65	85	76	70	65	74	69	64	73	68	64	71	67	63	61					61			
6	82	71	64	59	80	71	64	59	69	63	59	67	62	58	66	61	58	56					56			
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52					52			
8	73	62	55	50	71	61	55	50	60	54	50	59	53	49	58	53	49	48					48			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44					44			
10	65	54	47	43	64	54	47	43	53	47	43	52	46	43	51	46	43	41					41			

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

	0°	45°	90°
0°	35362	35362	35362
5°	34961	34961	35000
10°	33857	33940	33983
15°	32129	32214	32299
20°	29824	30002	30089
25°	27060	27421	27378
30°	23938	24510	24272
35°	19926	21382	20378
40°	13130	17918	13399
45°	7696	14224	7928
50°	5513	8467	5513
55°	4309	5029	4384
60°	3134	3625	3134
65°	2537	2832	2537
70°	2165	2291	2291
75°	1913	1913	1913
80°	1661	1661	1661
85°	1433	1433	1433



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.2	7.5
10°-20°	202.3	19.8
20°-30°	263.2	25.8
30°-40°	243.0	23.8
40°-50°	134.5	13.2
50°-60°	58.2	5.7
60°-70°	26.8	2.6
70°-80°	12.9	1.3
80°-90°	3.5	0.3
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°	541.7	53.1
0°-40°	784.7	76.9
0°-60°	977.4	95.8
0°-90°	1020.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1020.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	821	821	821	821	821	
5°	809	810	809	810	810	76
15°	721	722	723	725	725	202
25°	570	572	577	578	576	261
35°	379	393	407	398	388	229
45°	126	155	234	159	130	106
55°	57	64	67	64	58	52
65°	25	26	28	26	25	25
75°	12	12	12	12	12	12
85°	3	3	3	3	3	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	821.3	821.3	821.3	821.3	821.3
2.5°	818.4	818.4	818.4	818.4	818.4
5°	808.9	809.8	808.9	809.8	809.8
7.5°	794.5	795.5	794.5	795.5	795.5
10°	774.4	774.4	776.3	776.3	777.3
12.5°	749.5	750.5	751.4	752.4	753.4
15°	720.8	721.8	722.7	724.6	724.6
17.5°	689.2	688.3	691.1	691.1	693.0
20°	650.9	652.8	654.8	655.7	656.7
22.5°	610.7	612.6	616.5	617.4	618.4
25°	569.6	571.5	577.2	578.2	576.3
27.5°	525.5	530.3	535.1	534.1	533.2
30°	481.5	484.4	493.0	490.1	488.2
32.5°	431.7	441.3	449.0	445.1	439.4
35°	379.1	393.4	406.8	398.2	387.7
37.5°	307.3	344.6	361.8	348.4	316.9
40°	233.6	277.6	318.8	282.4	238.4
42.5°	170.4	210.6	275.7	215.4	173.3
45°	126.4	155.1	233.6	158.9	130.2
47.5°	98.6	118.7	178.0	118.7	99.6
50°	82.3	92.9	126.4	93.8	82.3
52.5°	68.9	76.6	90.0	76.6	68.9
55°	57.4	64.1	67.0	64.1	58.4
57.5°	45.9	52.6	51.7	52.6	46.9
60°	36.4	41.2	42.1	41.2	36.4
62.5°	27.8	31.6	34.5	31.6	27.8
65°	24.9	25.8	27.8	25.8	24.9
67.5°	21.1	22.0	22.0	22.0	21.1
70°	17.2	18.2	18.2	18.2	18.2
72.5°	14.4	15.3	15.3	15.3	14.4
75°	11.5	12.4	11.5	12.4	11.5
77.5°	8.6	9.6	9.6	9.6	9.6
80°	6.7	6.7	6.7	6.7	6.7
82.5°	4.8	4.8	4.8	4.8	4.8
85°	2.9	2.9	2.9	2.9	2.9
87.5°	1.9	1.9	1.0	1.9	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)