

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: P238144

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238144  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-14)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS615D010-S6M12-61SMDMB-3000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, DEEP TRIM MATTE BLACK  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1116.6 lumens  
Efficiency: N/A  
Efficacy: 88.6 lumens/watt  
Spacing Criteria (0/90/45): 0.93 / 0.95 / 1  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

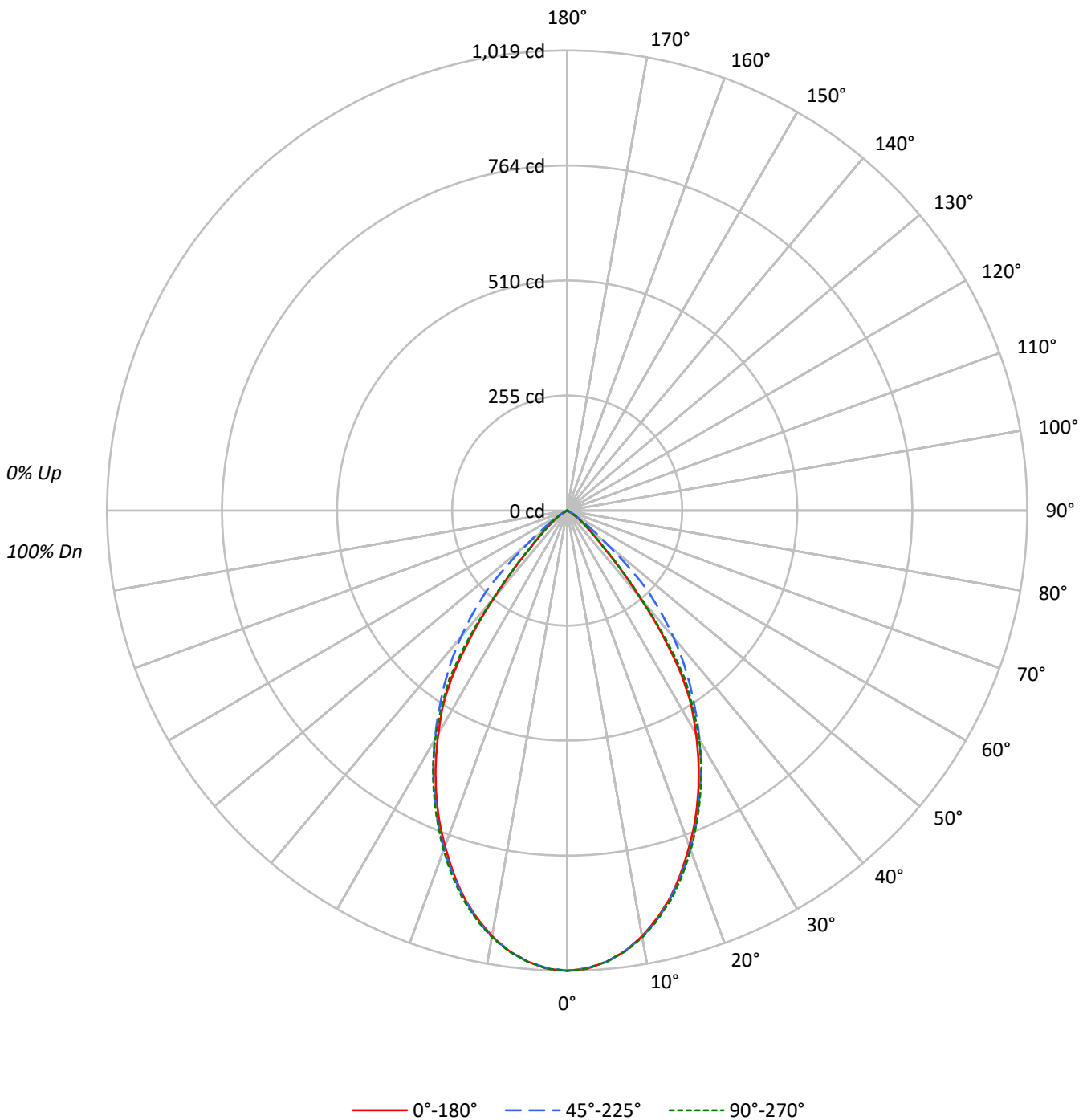
Input Watts (W): 12.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93					93			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85					85			
3	101	94	88	84	99	92	88	84	90	86	82	87	84	81	85	82	80	78					78			
4	95	87	81	76	93	86	80	76	83	79	75	81	77	74	80	76	73	72					72			
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	74	70	67	66					66			
6	85	75	68	64	83	74	68	63	73	67	63	71	66	63	70	65	62	61					61			
7	80	70	63	59	78	69	63	59	68	62	58	67	62	58	65	61	58	56					56			
8	76	65	59	54	74	65	58	54	63	58	54	62	57	54	61	57	53	52					52			
9	72	61	55	50	70	61	54	50	60	54	50	59	54	50	58	53	50	48					48			
10	68	57	51	47	67	57	51	47	56	51	47	55	50	47	54	50	46	45					45			

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

	0°	45°	90°
0°	43882	43882	43882
5°	43337	43337	43337
10°	41831	41888	41945
15°	39471	39524	39698
20°	36252	36545	36660
25°	32623	32989	33107
30°	28378	29139	29074
35°	23038	24977	23842
40°	14107	20554	14394
45°	6747	15436	6984
50°	3758	7683	3758
55°	2199	3153	2297
60°	551	1429	654
65°	0	387	132
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°	94.3	8.4
10°-20°	248.1	22.2
20°-30°	317.3	28.4
30°-40°	283.1	25.4
40°-50°	135.3	12.1
50°-60°	35.4	3.2
60°-70°	3.0	0.3
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°	659.7	59.1
0°-40°	942.8	84.4
0°-60°	1113.6	99.7
0°-90°	1116.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1116.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1019	1019	1019	1019	1019	
5°	1003	1003	1003	1004	1003	94
15°	886	886	887	889	891	247
25°	687	689	694	697	697	314
35°	438	460	475	466	454	264
45°	111	153	254	154	115	97
55°	29	38	42	38	31	27
65°	0	1	4	0	1	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°	1019.2	1019.2	1019.2	1019.2	1019.2
2.5°	1015.4	1015.4	1014.1	1015.4	1015.4
5°	1002.7	1002.7	1002.7	1003.9	1002.7
7.5°	983.6	983.6	983.6	984.8	984.8
10°	956.8	956.8	958.1	959.4	959.4
12.5°	923.7	923.7	926.2	927.5	927.5
15°	885.5	885.5	886.7	889.3	890.6
17.5°	839.6	840.9	843.4	846.0	847.2
20°	791.2	792.5	797.6	800.1	800.1
22.5°	741.5	742.8	747.9	750.4	749.1
25°	686.7	689.3	694.4	696.9	696.9
27.5°	630.7	634.5	642.1	640.8	643.4
30°	570.8	577.1	586.1	586.1	584.8
32.5°	512.2	519.8	530.0	524.9	518.5
35°	438.3	459.9	475.2	466.3	453.6
37.5°	345.3	393.7	421.7	402.6	359.3
40°	251.0	308.3	365.7	316.0	256.1
42.5°	169.4	220.4	309.6	226.8	175.8
45°	110.8	152.9	253.5	154.2	114.7
47.5°	76.4	101.9	183.5	103.2	77.7
50°	56.1	71.3	114.7	71.3	56.1
52.5°	42.0	52.2	70.1	52.2	42.0
55°	29.3	38.2	42.0	38.2	30.6
57.5°	17.8	25.5	25.5	25.5	17.8
60°	6.4	14.0	16.6	14.0	7.6
62.5°	0.0	3.8	8.9	3.8	0.0
65°	0.0	1.3	3.8	0.0	1.3
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)