

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: P238199

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238199  
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: PRS615D010-S6M12-61SMDMW-4000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, DEEP TRIM MATTE WHITE  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1411.2 lumens  
Efficiency: N/A  
Efficacy: 112.0 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

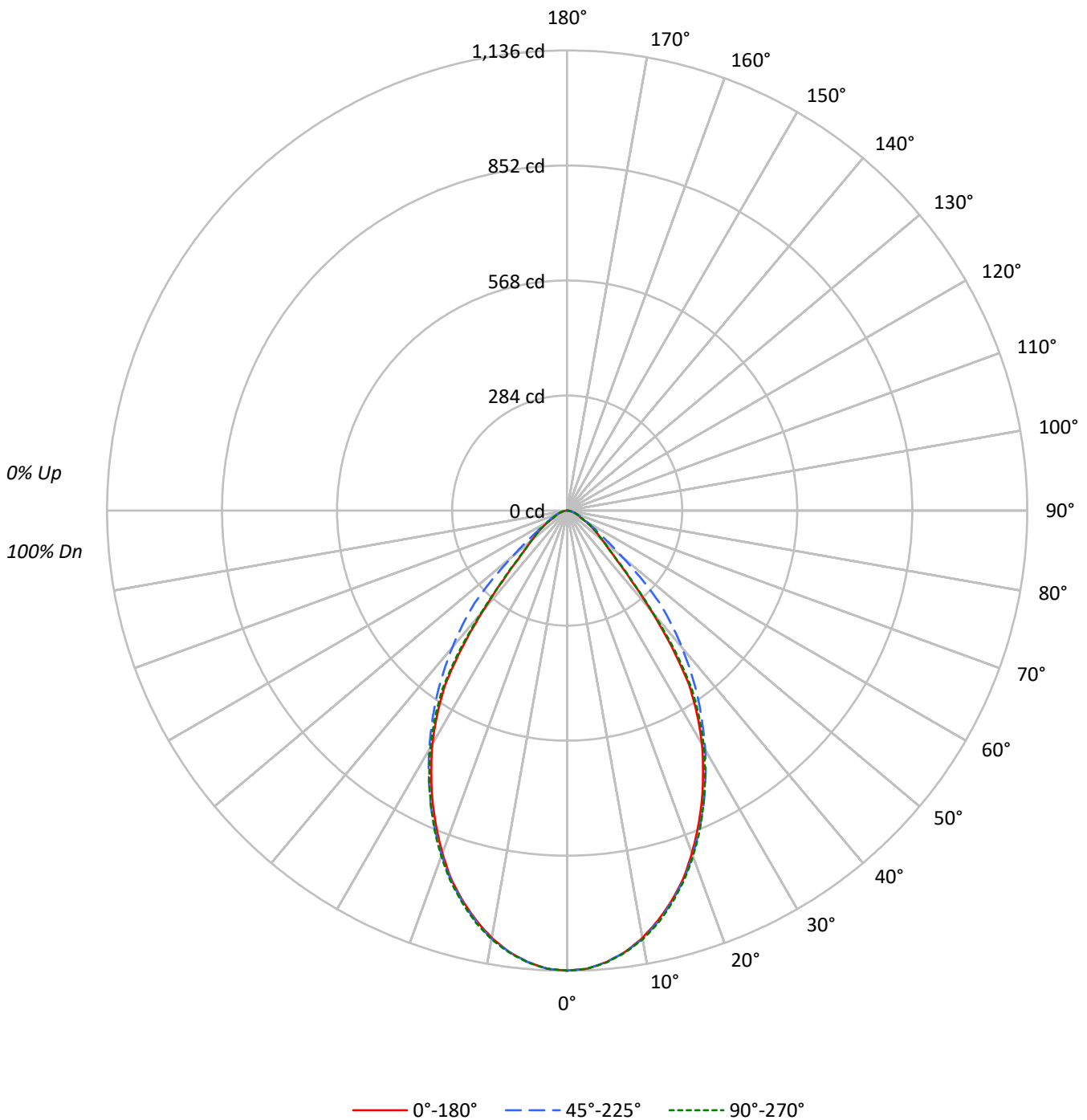
Input Watts (W): 12.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82
3	99	91	85	80	97	90	84	80	87	82	79	84	81	77	82	79	76	74
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67
5	87	77	70	65	85	76	70	65	74	69	64	73	68	64	71	67	63	61
6	82	71	64	59	80	71	64	59	69	63	59	67	62	58	66	61	58	56
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52
8	73	62	55	50	71	61	55	50	60	54	50	59	53	49	58	53	49	48
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44
10	65	54	47	43	64	54	47	43	53	47	43	52	46	43	51	46	43	41

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

	0°	45°	90°
0°	48903	48903	48903
5°	48346	48346	48402
10°	46820	46938	46994
15°	44432	44548	44668
20°	41246	41489	41608
25°	37416	37920	37858
30°	33106	33892	33564
35°	27553	29571	28178
40°	18154	24775	18525
45°	10637	19667	10960
50°	7623	11702	7623
55°	5960	6959	6058
60°	4331	5012	4331
65°	3505	3912	3505
70°	2996	3172	3172
75°	2645	2645	2645
80°	2306	2306	2306
85°	1976	1976	1976



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.4	7.5
10°-20°	279.8	19.8
20°-30°	363.9	25.8
30°-40°	336.0	23.8
40°-50°	186.0	13.2
50°-60°	80.5	5.7
60°-70°	37.0	2.6
70°-80°	17.8	1.3
80°-90°	4.8	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°	749.1	53.1
0°-40°	1085.1	76.9
0°-60°	1351.6	95.8
0°-90°	1411.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1411.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1136	1136	1136	1136	1136	
5°	1119	1120	1119	1120	1120	105
15°	997	998	999	1002	1002	279
25°	788	790	798	800	797	360
35°	524	544	563	551	536	316
45°	175	214	323	220	180	146
55°	79	89	93	89	81	71
65°	34	36	38	36	34	34
75°	16	17	16	17	16	17
85°	4	4	4	4	4	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	<i>1135.8</i>	<i>1135.8</i>	<i>1135.8</i>	<i>1135.8</i>	<i>1135.8</i>
2.5°	<i>1131.8</i>	1131.8	1131.8	1131.8	1131.8
5°	<i>1118.6</i>	1119.9	1118.6	1119.9	1119.9
7.5°	<i>1098.7</i>	1100.0	1098.7	1100.0	1100.0
10°	<i>1070.9</i>	1070.9	1073.6	1073.6	1074.9
12.5°	<i>1036.5</i>	1037.8	1039.1	1040.5	1041.8
15°	<i>996.8</i>	998.1	999.4	1002.1	1002.1
17.5°	<i>953.1</i>	951.8	955.8	955.8	958.4
20°	<i>900.2</i>	902.8	905.5	906.8	908.1
22.5°	<i>844.6</i>	847.2	852.5	853.8	855.1
25°	<i>787.6</i>	790.3	798.2	799.5	796.9
27.5°	<i>726.7</i>	733.4	740.0	738.7	737.3
30°	<i>665.9</i>	669.8	681.7	677.8	675.1
32.5°	<i>597.0</i>	610.3	620.8	615.5	607.6
35°	<i>524.2</i>	544.1	562.6	550.7	536.1
37.5°	<i>424.9</i>	476.6	500.4	481.8	438.2
40°	<i>323.0</i>	383.9	440.8	390.5	329.6
42.5°	<i>235.6</i>	291.2	381.2	297.8	239.6
45°	<i>174.7</i>	214.4	323.0	219.7	180.0
47.5°	<i>136.3</i>	164.1	246.2	164.1	137.7
50°	<i>113.8</i>	128.4	174.7	129.7	113.8
52.5°	<i>95.3</i>	105.9	124.4	105.9	95.3
55°	<i>79.4</i>	88.7	92.7	88.7	80.7
57.5°	<i>63.5</i>	72.8	71.5	72.8	64.9
60°	<i>50.3</i>	56.9	58.2	56.9	50.3
62.5°	<i>38.4</i>	43.7	47.7	43.7	38.4
65°	<i>34.4</i>	35.7	38.4	35.7	34.4
67.5°	<i>29.1</i>	30.4	30.4	30.4	29.1
70°	<i>23.8</i>	25.2	25.2	25.2	25.2
72.5°	<i>19.9</i>	21.2	21.2	21.2	19.9
75°	<i>15.9</i>	17.2	15.9	17.2	15.9
77.5°	<i>11.9</i>	13.2	13.2	13.2	13.2
80°	<i>9.3</i>	9.3	9.3	9.3	9.3
82.5°	<i>6.6</i>	6.6	6.6	6.6	6.6
85°	<i>4.0</i>	4.0	4.0	4.0	4.0
87.5°	<i>2.6</i>	2.6	1.3	2.6	2.6
90°	<i>0.0</i>	0.0	0.0	0.0	0.0

(END OF REPORT)