

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: P253004

Luminaire Tested: **PRS615D010-S6M12-64SWDH-3000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253004  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1804-748-1)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS615D010-S6M12-64SWDH-3000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW TRIM HAZE  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1319.3 lumens  
Efficiency: N/A  
Efficacy: 104.7 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.32 / 1.41  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

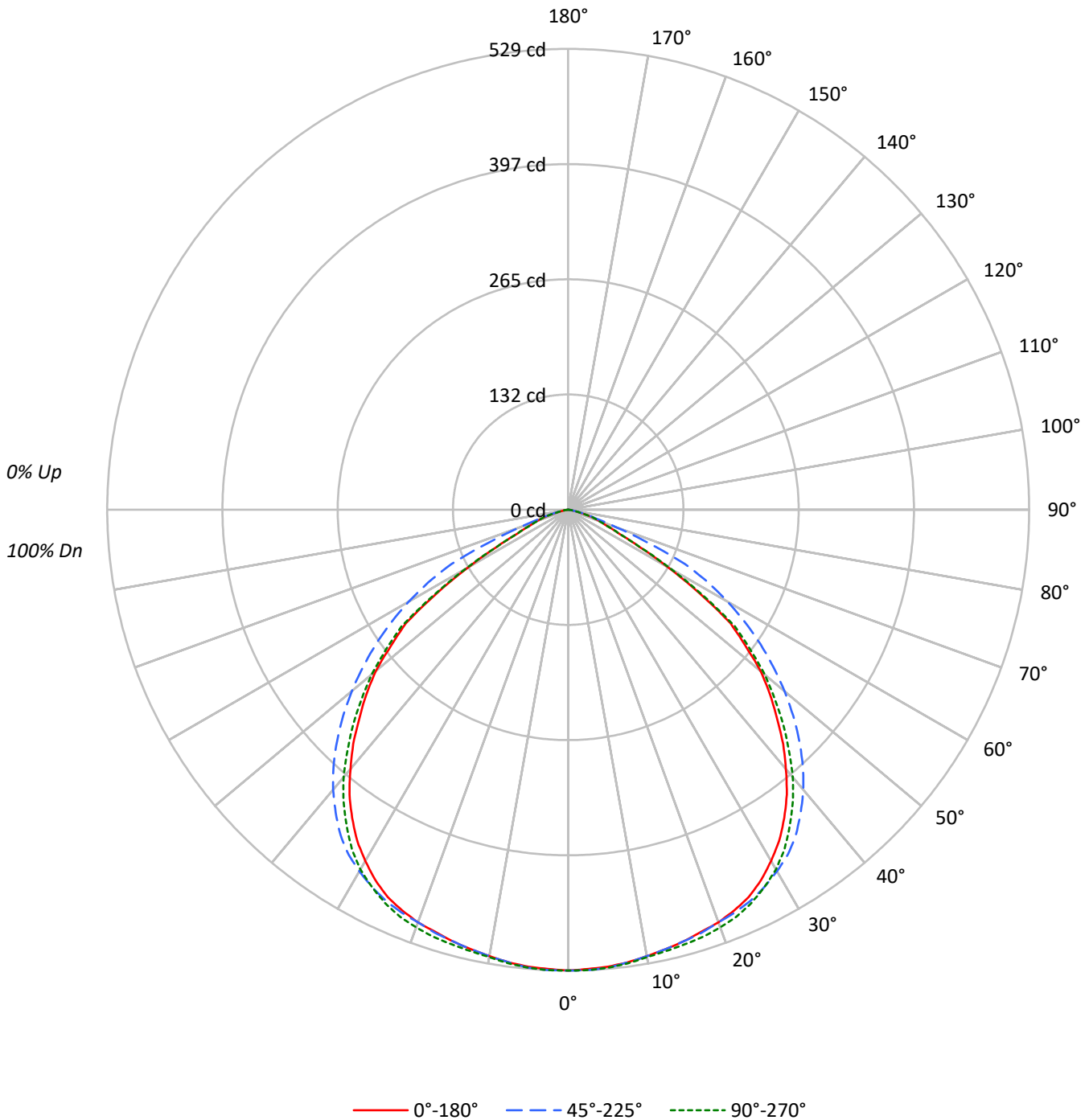
Input Watts (W): 12.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76
3	94	84	77	72	91	83	76	71	80	74	70	77	73	68	75	71	67	65
4	86	76	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28

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

	0°	45°	90°
0°	22776	22776	22776
5°	22755	22807	22807
10°	22747	22747	22800
15°	22858	22858	23027
20°	23097	23097	23381
25°	23302	23535	23654
30°	23148	23829	23705
35°	22712	23952	23300
40°	21847	23589	22544
45°	20642	22834	21244
50°	19298	21709	19713
55°	17055	20230	17520
60°	11444	18178	11763
65°	6449	15058	6449
70°	4847	7352	4696
75°	2895	3310	3094
80°	1240	1537	1240
85°	593	593	593



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.1	3.8
10°-20°	145.3	11.0
20°-30°	227.7	17.3
30°-40°	278.2	21.1
40°-50°	276.6	21.0
50°-60°	218.4	16.6
60°-70°	97.8	7.4
70°-80°	22.8	1.7
80°-90°	2.3	0.2
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°	423.2	32.1
0°-40°	701.4	53.2
0°-60°	1196.4	90.7
0°-90°	1319.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1319.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	529	529	529	529	529	
5°	526	526	528	528	528	50
15°	513	512	513	514	517	145
25°	490	492	495	497	498	225
35°	432	441	456	450	443	270
45°	339	355	375	364	349	262
55°	227	245	270	250	233	194
65°	63	83	148	84	63	71
75°	17	21	20	21	19	20
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	529.0	529.0	529.0	529.0	529.0
2.5°	527.7	529.0	529.0	529.0	529.0
5°	526.5	526.5	527.7	527.7	527.7
7.5°	524.0	524.0	524.0	525.2	525.2
10°	520.3	520.3	520.3	521.5	521.5
12.5°	516.6	516.6	516.6	517.8	519.0
15°	512.8	511.6	512.8	514.1	516.6
17.5°	507.9	509.1	509.1	511.6	514.1
20°	504.1	504.1	504.1	507.9	510.3
22.5°	497.9	497.9	500.4	502.9	505.4
25°	490.5	491.7	495.4	496.7	497.9
27.5°	479.3	483.0	488.0	489.2	488.0
30°	465.6	470.6	479.3	478.1	476.8
32.5°	450.7	457.0	469.4	465.6	461.9
35°	432.1	440.8	455.7	449.5	443.3
37.5°	412.2	423.4	438.3	432.1	423.4
40°	388.7	402.3	419.7	411.0	401.1
42.5°	365.1	380.0	398.6	387.4	375.0
45°	339.0	355.1	375.0	363.8	348.9
47.5°	314.2	330.3	350.2	336.5	321.6
50°	288.1	303.0	324.1	309.2	294.3
52.5°	255.8	275.7	296.8	280.6	263.2
55°	227.2	244.6	269.5	249.6	233.4
57.5°	178.8	213.6	240.9	217.3	183.8
60°	132.9	166.4	211.1	171.4	136.6
62.5°	91.9	122.9	181.3	124.2	93.1
65°	63.3	83.2	147.8	84.4	63.3
67.5°	47.2	55.9	99.3	55.9	47.2
70°	38.5	41.0	58.4	41.0	37.3
72.5°	28.6	32.3	32.3	32.3	29.8
75°	17.4	21.1	19.9	21.1	18.6
77.5°	7.5	9.9	12.4	11.2	7.5
80°	5.0	5.0	6.2	5.0	5.0
82.5°	3.7	3.7	3.7	3.7	3.7
85°	1.2	1.2	1.2	1.2	1.2
87.5°	1.2	1.2	1.2	1.2	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)