

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: P253034

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253034  
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-S6M12-64SWDMB-3000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW 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: 1228.5 lumens  
Efficiency: N/A  
Efficacy: 97.5 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

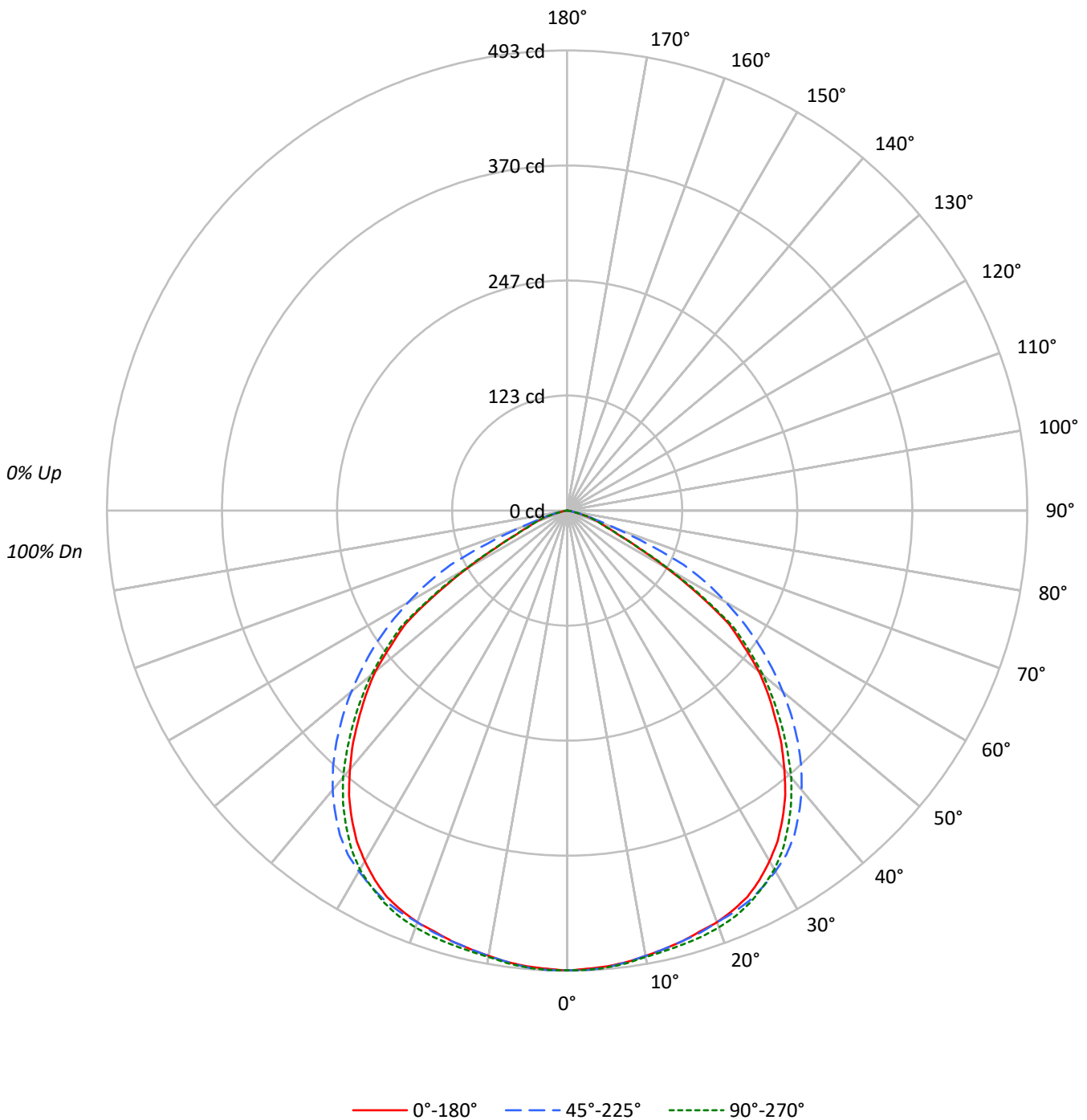
Input Watts (W): 12.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	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°	21209	21209	21209
5°	21187	21238	21238
10°	21182	21182	21230
15°	21284	21284	21440
20°	21507	21507	21773
25°	21696	21915	22029
30°	21557	22188	22074
35°	21151	22302	21697
40°	20341	21965	20993
45°	19223	21263	19783
50°	17965	20215	18353
55°	15884	18834	16319
60°	10652	16929	10953
65°	6011	14018	6011
70°	4507	6836	4368
75°	2695	3078	2878
80°	1141	1438	1141
85°	593	593	593



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.7	3.8
10°-20°	135.3	11.0
20°-30°	212.1	17.3
30°-40°	259.1	21.1
40°-50°	257.6	21.0
50°-60°	203.4	16.6
60°-70°	91.0	7.4
70°-80°	21.2	1.7
80°-90°	2.2	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°	394.1	32.1
0°-40°	653.1	53.2
0°-60°	1114.1	90.7
0°-90°	1228.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1228.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	493	493	493	493	493	
5°	490	490	491	491	491	47
15°	478	476	478	479	481	135
25°	457	458	461	462	464	210
35°	402	410	424	419	413	251
45°	316	331	349	339	325	244
55°	212	228	251	232	217	181
65°	59	78	138	79	59	66
75°	16	20	18	20	17	18
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°	492.6	492.6	492.6	492.6	492.6
2.5°	491.4	492.6	492.6	492.6	492.6
5°	490.2	490.2	491.4	491.4	491.4
7.5°	487.9	487.9	487.9	489.1	489.1
10°	484.5	484.5	484.5	485.6	485.6
12.5°	481.0	481.0	481.0	482.2	483.3
15°	477.5	476.4	477.5	478.7	481.0
17.5°	472.9	474.1	474.1	476.4	478.7
20°	469.4	469.4	469.4	472.9	475.2
22.5°	463.7	463.7	466.0	468.3	470.6
25°	456.7	457.9	461.3	462.5	463.7
27.5°	446.3	449.8	454.4	455.6	454.4
30°	433.6	438.2	446.3	445.2	444.0
32.5°	419.7	425.5	437.1	433.6	430.1
35°	402.4	410.5	424.3	418.6	412.8
37.5°	383.9	394.3	408.2	402.4	394.3
40°	361.9	374.6	390.8	382.7	373.5
42.5°	339.9	353.8	371.2	360.7	349.2
45°	315.7	330.7	349.2	338.8	324.9
47.5°	292.5	307.6	326.1	313.3	299.5
50°	268.2	282.1	301.8	287.9	274.0
52.5°	238.2	256.7	276.3	261.3	245.1
55°	211.6	227.8	250.9	232.4	217.4
57.5°	166.5	198.9	224.3	202.3	171.1
60°	123.7	154.9	196.6	159.6	127.2
62.5°	85.6	114.5	168.8	115.6	86.7
65°	59.0	77.5	137.6	78.6	59.0
67.5°	43.9	52.0	92.5	52.0	43.9
70°	35.8	38.2	54.3	38.2	34.7
72.5°	26.6	30.1	30.1	30.1	27.7
75°	16.2	19.7	18.5	19.7	17.3
77.5°	6.9	9.2	11.6	10.4	6.9
80°	4.6	4.6	5.8	4.6	4.6
82.5°	3.5	3.5	3.5	3.5	3.5
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)