

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: P237974

Luminaire Tested: **PRS615D010-S6M12-64SMDMB-4000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P237974  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-2)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS615D010-S6M12-64SMDMB-4000K  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SHALLOW TRIM MATTE BLACK  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1409.9 lumens  
Efficiency: N/A  
Efficacy: 111.9 lumens/watt  
Spacing Criteria (0/90/45): 0.93 / 0.94 / 1  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

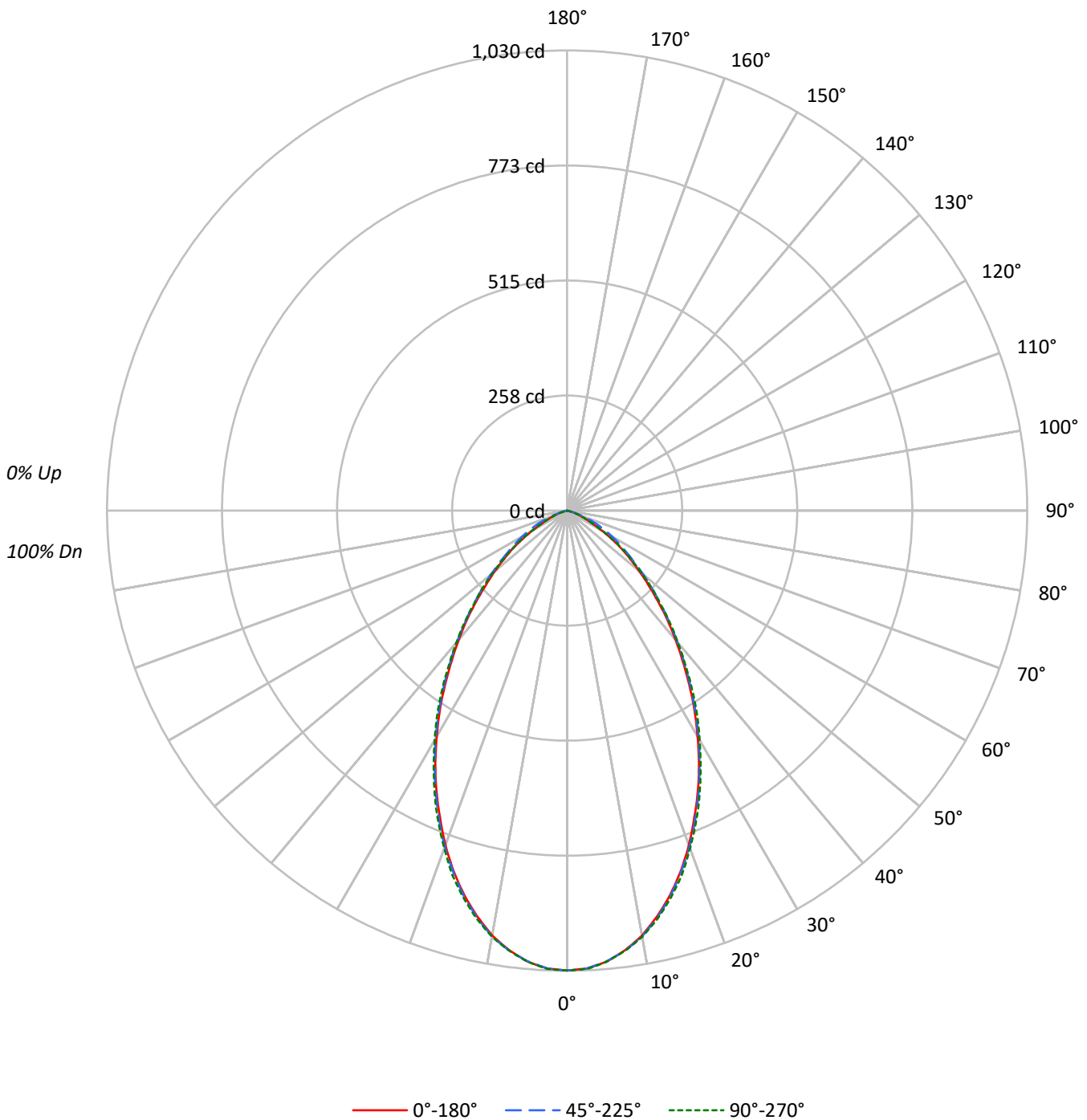
Input Watts (W): 12.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P237974

CATALOG NUMBER: PRS615D010-S6M12-64SMDMB-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P237974

CATALOG NUMBER: PRS615D010-S6M12-64SMDMB-4000K

**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	105	103	109	106	104	101	102	100	98		98	97	95		95	94	92	90
2	105	98	93	89	102	97	92	88	93	89	86		90	87	84		87	85	82	80
3	97	89	83	78	95	88	82	77	85	80	76		82	78	75		80	77	74	72
4	91	81	74	69	89	80	74	69	78	72	68		76	71	67		74	70	66	64
5	85	74	67	62	83	73	67	62	71	66	61		70	64	60		68	63	60	58
6	79	68	61	56	78	68	61	56	66	60	55		64	59	55		63	58	54	53
7	75	63	56	51	73	62	55	51	61	55	50		60	54	50		58	53	50	48
8	70	59	51	46	69	58	51	46	57	50	46		56	50	46		54	49	46	44
9	66	54	47	43	65	54	47	43	53	47	42		52	46	42		51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39		49	43	39		48	43	39	37

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

	0°	45°	90°
0°	44326	44326	44326
5°	43812	43752	43812
10°	42233	42295	42351
15°	39698	39814	39992
20°	36499	36683	36866
25°	32879	33069	33321
30°	29014	29278	29477
35°	25040	25319	25597
40°	21195	21572	21718
45°	17488	18048	17969
50°	14180	14890	14535
55°	11125	12116	11425
60°	7750	10032	7974
65°	4992	7682	4992
70°	3336	4494	3336
75°	1314	1980	1314
80°	0	0	0
85°	0	0	0



TEST NUMBER: P237974

CATALOG NUMBER: PRS615D010-S6M12-64SMDMB-4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.3	6.8
10°-20°	249.8	17.7
20°-30°	318.8	22.6
30°-40°	301.3	21.4
40°-50°	228.8	16.2
50°-60°	141.3	10.0
60°-70°	61.7	4.4
70°-80°	12.9	0.9
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°	663.9	47.1
0°-40°	965.2	68.5
0°-60°	1335.3	94.7
0°-90°	1409.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1409.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1030	1030	1030	1030	1030	
5°	1014	1014	1012	1014	1014	95
15°	891	891	893	896	897	249
25°	692	692	696	699	701	317
35°	476	480	482	486	487	298
45°	287	295	296	300	295	223
55°	148	158	161	160	152	132
65°	49	57	75	58	49	51
75°	8	12	12	12	8	10
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P237974

CATALOG NUMBER: PRS615D010-S6M12-64SMDMB-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1029.5	1029.5	1029.5	1029.5	1029.5
2.5°	1025.6	1025.6	1025.6	1025.6	1026.9
5°	1013.7	1013.7	1012.3	1013.7	1013.7
7.5°	992.5	993.8	993.8	993.8	993.8
10°	966.0	966.0	967.4	968.7	968.7
12.5°	930.3	931.6	932.9	935.6	935.6
15°	890.6	890.6	893.2	895.9	897.2
17.5°	845.6	845.6	848.3	850.9	854.9
20°	796.6	796.6	800.6	804.6	804.6
22.5°	743.7	743.7	749.0	750.3	754.3
25°	692.1	692.1	696.1	698.7	701.4
27.5°	639.2	637.8	641.8	644.5	647.1
30°	583.6	583.6	588.9	588.9	592.9
32.5°	530.7	530.7	534.6	537.3	541.2
35°	476.4	480.4	481.7	485.7	487.0
37.5°	424.8	431.4	431.4	436.7	434.1
40°	377.1	381.1	383.8	386.4	386.4
42.5°	332.2	337.4	337.4	341.4	340.1
45°	287.2	295.1	296.4	300.4	295.1
47.5°	246.1	255.4	256.7	259.4	256.7
50°	211.7	218.3	222.3	222.3	217.0
52.5°	177.3	185.3	189.2	189.2	182.6
55°	148.2	157.5	161.4	160.1	152.2
57.5°	117.8	128.4	137.6	132.3	121.7
60°	90.0	103.2	116.5	105.9	92.6
62.5°	64.8	78.1	95.3	78.1	67.5
65°	49.0	56.9	75.4	58.2	49.0
67.5°	35.7	41.0	55.6	42.3	35.7
70°	26.5	30.4	35.7	30.4	26.5
72.5°	17.2	21.2	21.2	21.2	17.2
75°	7.9	11.9	11.9	11.9	7.9
77.5°	0.0	2.6	5.3	2.6	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)