

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: P238154

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238154
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-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, DEEP 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: 1159.7 lumens
Efficiency: N/A
Efficacy: 92.0 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

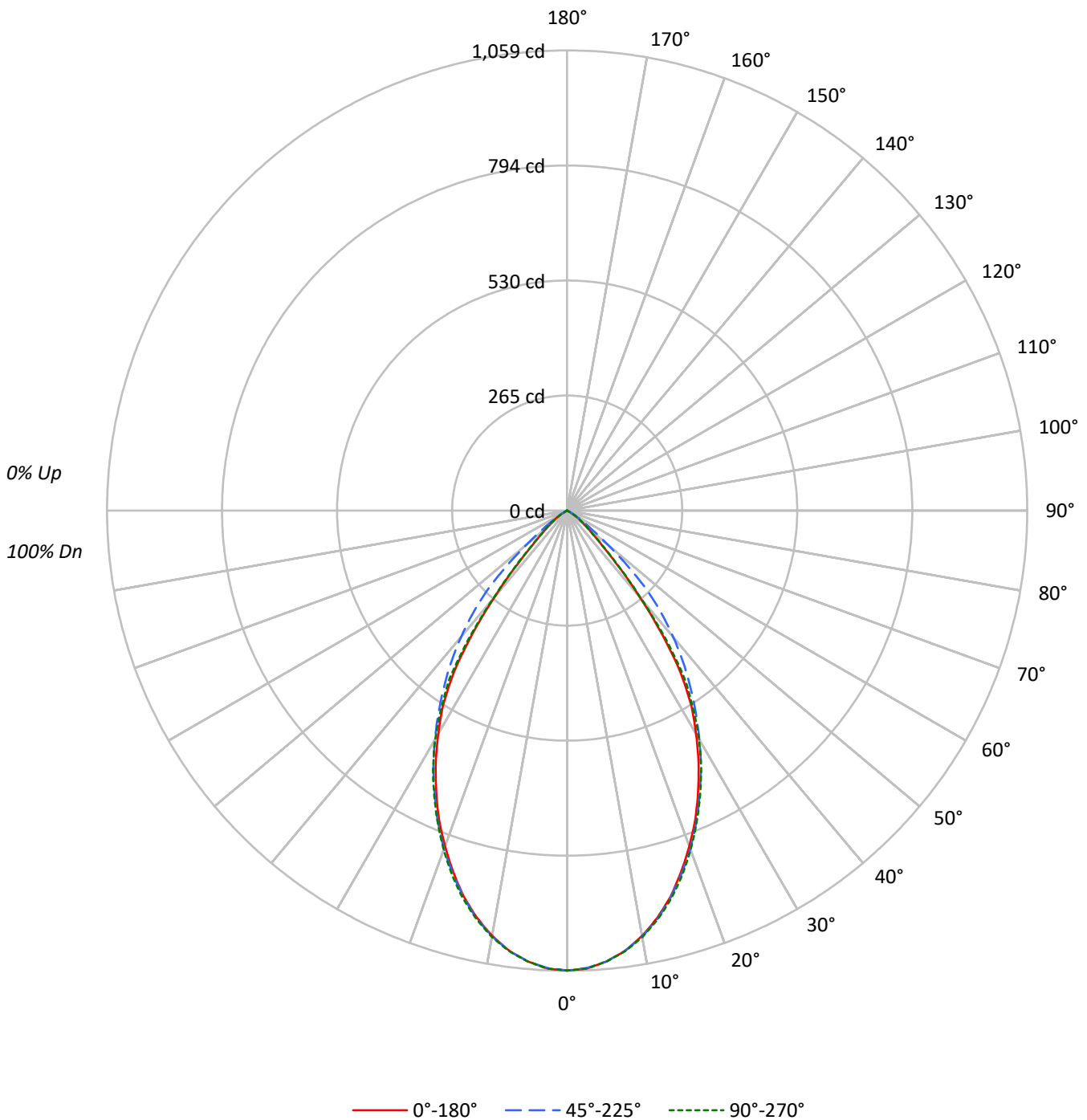
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	45579	45579	45579
5°	45009	45009	45009
10°	43449	43506	43562
15°	40995	41053	41231
20°	37649	37956	38075
25°	33882	34262	34385
30°	29472	30262	30198
35°	23926	25944	24762
40°	14653	21347	14951
45°	7008	16032	7252
50°	3898	7978	3898
55°	2282	3280	2387
60°	568	1481	680
65°	0	408	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°	98.0	8.4
10°-20°	257.7	22.2
20°-30°	329.6	28.4
30°-40°	294.0	25.4
40°-50°	140.6	12.1
50°-60°	36.8	3.2
60°-70°	3.1	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°	685.2	59.1
0°-40°	979.2	84.4
0°-60°	1156.6	99.7
0°-90°	1159.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1159.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1059	1059	1059	1059	1059	
5°	1041	1041	1041	1043	1041	98
15°	920	920	921	924	925	257
25°	713	716	721	724	724	326
35°	455	478	494	484	471	274
45°	115	159	263	160	119	100
55°	30	40	44	40	32	28
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°	1058.6	1058.6	1058.6	1058.6	1058.6
2.5°	1054.6	1054.6	1053.3	1054.6	1054.6
5°	1041.4	1041.4	1041.4	1042.7	1041.4
7.5°	1021.6	1021.6	1021.6	1022.9	1022.9
10°	993.8	993.8	995.1	996.4	996.4
12.5°	959.4	959.4	962.0	963.3	963.3
15°	919.7	919.7	921.0	923.6	925.0
17.5°	872.0	873.4	876.0	878.6	880.0
20°	821.7	823.1	828.4	831.0	831.0
22.5°	770.1	771.5	776.8	779.4	778.1
25°	713.2	715.9	721.2	723.8	723.8
27.5°	655.0	659.0	666.9	665.6	668.2
30°	592.8	599.4	608.7	608.7	607.4
32.5°	532.0	539.9	550.5	545.2	538.6
35°	455.2	477.7	493.6	484.3	471.1
37.5°	358.6	408.9	438.0	418.2	373.2
40°	260.7	320.2	379.8	328.2	266.0
42.5°	176.0	228.9	321.6	235.5	182.6
45°	115.1	158.8	263.3	160.1	119.1
47.5°	79.4	105.9	190.6	107.2	80.7
50°	58.2	74.1	119.1	74.1	58.2
52.5°	43.7	54.3	72.8	54.3	43.7
55°	30.4	39.7	43.7	39.7	31.8
57.5°	18.5	26.5	26.5	26.5	18.5
60°	6.6	14.6	17.2	14.6	7.9
62.5°	0.0	4.0	9.3	4.0	0.0
65°	0.0	1.3	4.0	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)