

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: P238189

Luminaire Tested: **PRS615D010-S6M12-61SMDMW-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238189
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-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, DEEP TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1358.7 lumens
Efficiency: N/A
Efficacy: 107.8 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

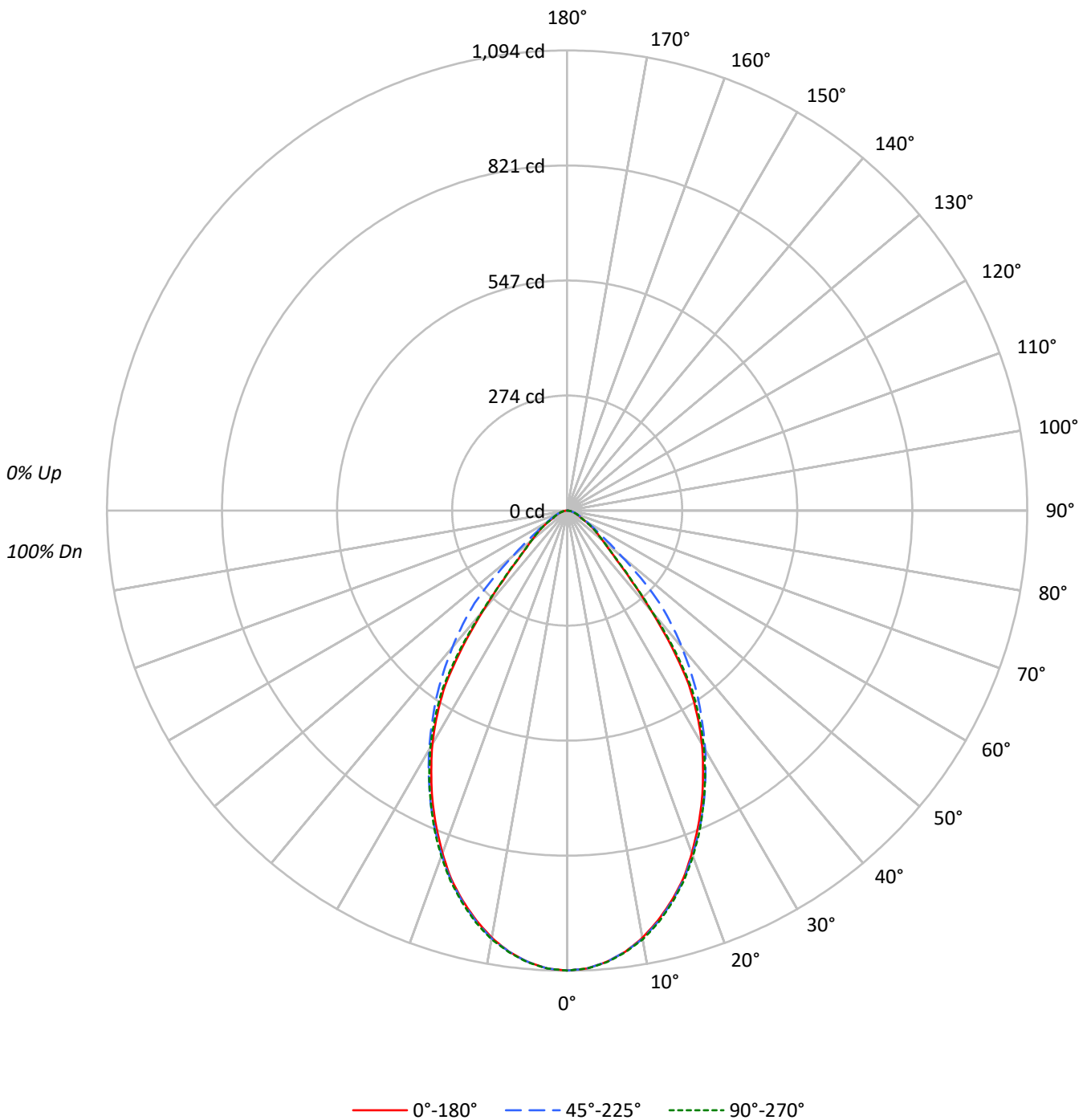
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	47081	47081	47081
5°	46548	46548	46600
10°	45080	45189	45246
15°	42778	42894	43005
20°	39711	39945	40059
25°	36024	36509	36452
30°	31873	32634	32316
35°	26528	28472	27132
40°	17480	23853	17840
45°	10242	18937	10552
50°	7341	11266	7341
55°	5742	6696	5833
60°	4168	4831	4168
65°	3372	3769	3372
70°	2883	3046	3046
75°	2545	2545	2545
80°	2207	2207	2207
85°	1877	1877	1877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.4	7.5
10°-20°	269.4	19.8
20°-30°	350.4	25.8
30°-40°	323.5	23.8
40°-50°	179.1	13.2
50°-60°	77.5	5.7
60°-70°	35.6	2.6
70°-80°	17.1	1.3
80°-90°	4.6	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°	721.2	53.1
0°-40°	1044.8	76.9
0°-60°	1301.4	95.8
0°-90°	1358.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1358.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1094	1094	1094	1094	1094	
5°	1077	1078	1077	1078	1078	101
15°	960	961	962	965	965	269
25°	758	761	768	770	767	347
35°	505	524	542	530	516	305
45°	168	206	311	212	173	141
55°	76	85	89	85	78	69
65°	33	34	37	34	33	33
75°	15	17	15	17	15	16
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°	1093.5	1093.5	1093.5	1093.5	1093.5
2.5°	1089.7	1089.7	1089.7	1089.7	1089.7
5°	1077.0	1078.2	1077.0	1078.2	1078.2
7.5°	1057.9	1059.1	1057.9	1059.1	1059.1
10°	1031.1	1031.1	1033.6	1033.6	1034.9
12.5°	997.9	999.2	1000.5	1001.8	1003.0
15°	959.7	961.0	962.3	964.8	964.8
17.5°	917.7	916.4	920.2	920.2	922.8
20°	866.7	869.2	871.8	873.0	874.3
22.5°	813.1	815.7	820.8	822.1	823.3
25°	758.3	760.9	768.5	769.8	767.3
27.5°	699.7	706.1	712.5	711.2	709.9
30°	641.1	644.9	656.4	652.6	650.0
32.5°	574.8	587.6	597.7	592.7	585.0
35°	504.7	523.8	541.7	530.2	516.2
37.5°	409.1	458.8	481.8	463.9	421.9
40°	311.0	369.6	424.4	376.0	317.4
42.5°	226.9	280.4	367.1	286.8	230.7
45°	168.2	206.5	311.0	211.6	173.3
47.5°	131.3	158.0	237.1	158.0	132.6
50°	109.6	123.6	168.2	124.9	109.6
52.5°	91.8	102.0	119.8	102.0	91.8
55°	76.5	85.4	89.2	85.4	77.7
57.5°	61.2	70.1	68.8	70.1	62.5
60°	48.4	54.8	56.1	54.8	48.4
62.5°	37.0	42.1	45.9	42.1	37.0
65°	33.1	34.4	37.0	34.4	33.1
67.5°	28.0	29.3	29.3	29.3	28.0
70°	22.9	24.2	24.2	24.2	24.2
72.5°	19.1	20.4	20.4	20.4	19.1
75°	15.3	16.6	15.3	16.6	15.3
77.5°	11.5	12.7	12.7	12.7	12.7
80°	8.9	8.9	8.9	8.9	8.9
82.5°	6.4	6.4	6.4	6.4	6.4
85°	3.8	3.8	3.8	3.8	3.8
87.5°	2.5	2.5	1.3	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)