

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: P238234

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238234
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-20)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS615D010-S6M12-61SMDH-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, DEEP TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1330.7 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.95
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

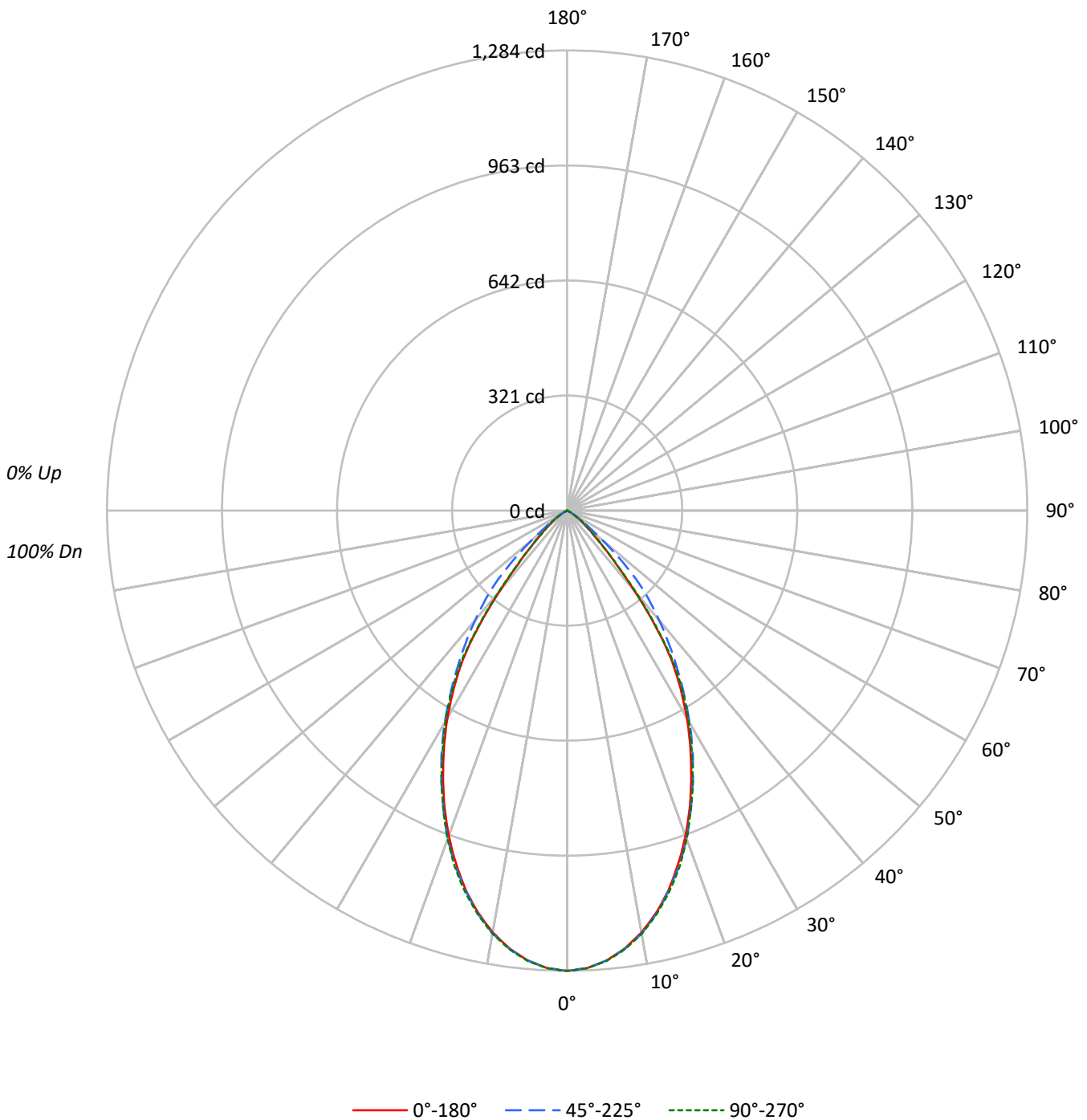
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	96	94	93		
1	113	110	108	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93	93	93	91	89	87	85		
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85	85	81	80	80	78		
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78	78	78	74	73	73	72		
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	73	72	72	72	68	68	66	66		
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66	66	66	63	63	61	61		
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	63	61	61	61	58	58	57	57		
7	80	70	64	59	79	70	63	59	68	63	59	67	62	58	66	61	58	57	57	57	54	54	52	52		
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52	52	52	50	50	49	49		
9	72	62	55	51	71	61	55	51	60	55	51	59	54	50	58	54	50	49	49	49	47	47	46	46		
10	68	58	52	48	67	57	51	47	57	51	47	56	51	47	55	50	47	46	46	46	44	44	43	43		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	55296	55296	55296
5°	54462	54462	54518
10°	52250	52363	52416
15°	48787	48898	49068
20°	44252	44660	44660
25°	38917	39464	39402
30°	33191	33951	33762
35°	26654	27994	27190
40°	16255	22415	16755
45°	8610	16678	8689
50°	4950	8621	4950
55°	3063	3731	3063
60°	1094	1757	1094
65°	255	652	255
70°	164	164	164
75°	216	216	216
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.3	8.9
10°-20°	306.5	23.0
20°-30°	378.3	28.4
30°-40°	323.0	24.3
40°-50°	154.6	11.6
50°-60°	43.5	3.3
60°-70°	5.7	0.4
70°-80°	0.9	0.1
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°	803.1	60.3
0°-40°	1126.1	84.6
0°-60°	1324.2	99.5
0°-90°	1330.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1330.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1284	1284	1284	1284	1284	
5°	1260	1261	1260	1261	1261	118
15°	1094	1096	1097	1101	1101	305
25°	819	823	831	831	829	375
35°	507	526	533	533	517	306
45°	141	176	274	177	143	119
55°	41	47	50	46	41	37
65°	2	2	6	2	2	4
75°	1	1	1	1	1	1
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°	1284.3	1284.3	1284.3	1284.3	1284.3
2.5°	1277.9	1277.9	1277.9	1277.9	1277.9
5°	1260.1	1261.4	1260.1	1261.4	1261.4
7.5°	1232.1	1233.3	1233.3	1234.6	1234.6
10°	1195.1	1196.4	1197.7	1197.7	1198.9
12.5°	1149.2	1149.2	1151.8	1153.1	1153.1
15°	1094.5	1095.7	1097.0	1100.8	1100.8
17.5°	1032.0	1034.6	1038.4	1039.7	1042.2
20°	965.8	965.8	974.7	973.4	974.7
22.5°	894.4	898.2	902.1	904.6	902.1
25°	819.2	823.1	830.7	830.7	829.4
27.5°	744.1	747.9	758.1	754.3	751.7
30°	667.6	671.5	682.9	676.5	679.1
32.5°	588.6	600.1	606.5	606.5	600.1
35°	507.1	526.2	532.6	532.6	517.3
37.5°	401.3	447.2	465.0	451.0	406.4
40°	289.2	349.1	398.8	355.5	298.1
42.5°	202.6	253.5	337.6	257.4	205.1
45°	141.4	175.8	273.9	177.1	142.7
47.5°	99.4	122.3	198.8	122.3	99.4
50°	73.9	86.6	128.7	85.4	73.9
52.5°	56.1	63.7	79.0	62.4	56.1
55°	40.8	47.1	49.7	45.9	40.8
57.5°	25.5	31.9	31.9	31.9	24.2
60°	12.7	17.8	20.4	17.8	12.7
62.5°	3.8	7.6	12.7	7.6	3.8
65°	2.5	2.5	6.4	2.5	2.5
67.5°	2.5	2.5	2.5	2.5	2.5
70°	1.3	1.3	1.3	1.3	1.3
72.5°	1.3	1.3	1.3	1.3	1.3
75°	1.3	1.3	1.3	1.3	1.3
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)