

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: P238319

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238319
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS615D010-S6M12-64SNDMB-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW 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: 1443.0 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.89
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

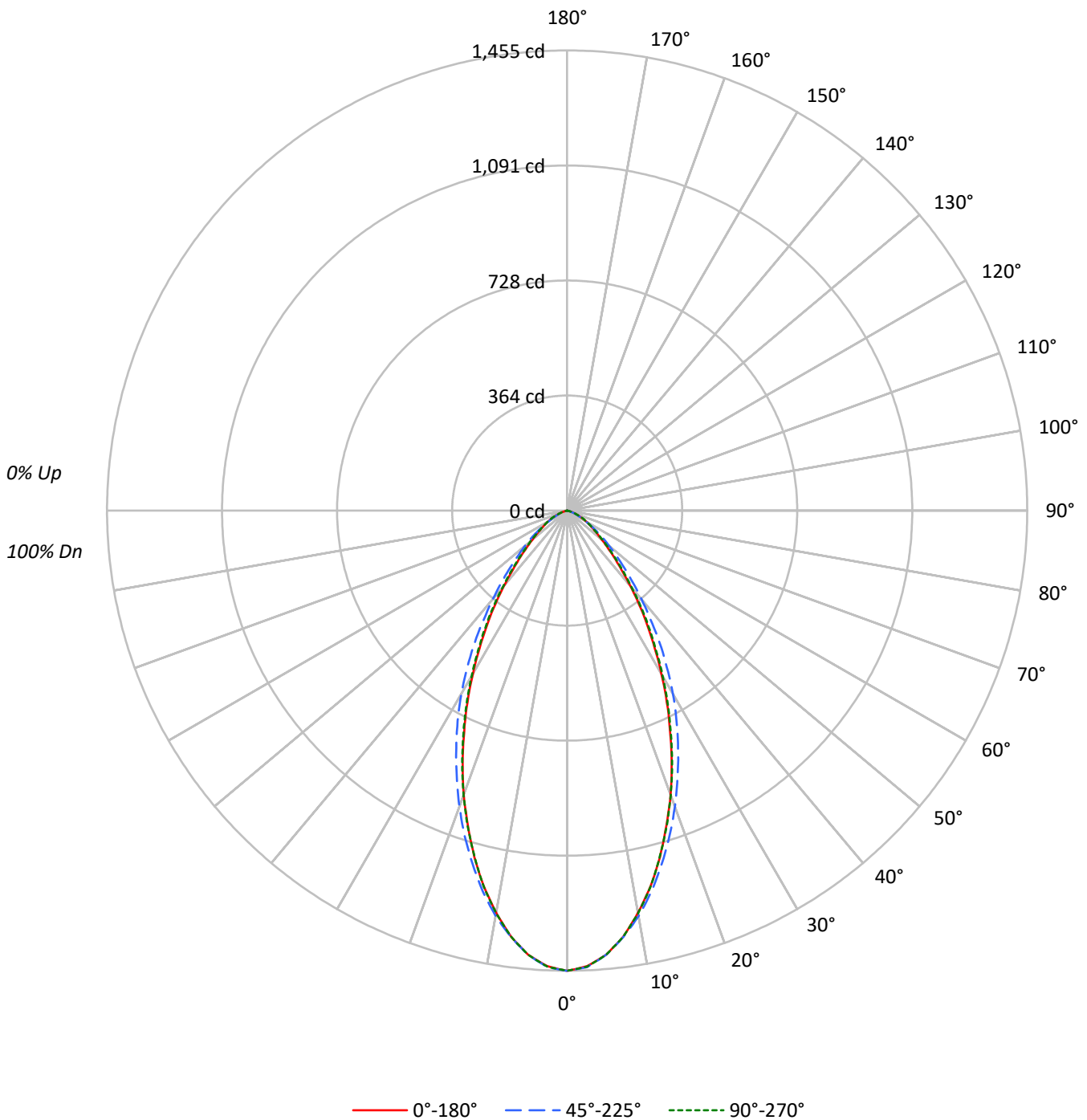
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92					92			
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83					83			
3	99	92	86	82	97	91	85	81	88	83	80	85	82	78	83	80	77	75					75			
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69					69			
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63					63			
6	83	73	66	61	81	72	65	61	70	65	60	69	64	60	67	63	59	58					58			
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53					53			
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	55	51	50					50			
9	70	59	53	48	69	59	52	48	58	52	48	57	52	48	56	51	48	46					46			
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43					43			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	62659	62659	62659
5°	60953	60953	60953
10°	56447	56910	56504
15°	50525	51528	50467
20°	43807	45626	43867
25°	36613	39445	36865
30°	29626	33245	30019
35°	23180	26796	23663
40°	17418	20470	17862
45°	12817	15399	13304
50°	9579	11528	10021
55°	7454	8452	7657
60°	6045	5813	6157
65°	4452	3912	4585
70°	2996	2505	2996
75°	1314	1098	1314
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.0	9.1
10°-20°	319.0	22.1
20°-30°	366.2	25.4
30°-40°	296.4	20.5
40°-50°	181.7	12.6
50°-60°	97.5	6.8
60°-70°	42.1	2.9
70°-80°	9.1	0.6
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°	816.1	56.6
0°-40°	1112.6	77.1
0°-60°	1391.8	96.4
0°-90°	1443.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1443.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1455	1455	1455	1455	1455	
5°	1410	1410	1410	1410	1410	131
15°	1134	1144	1156	1145	1132	315
25°	771	797	830	798	776	353
35°	441	469	510	474	450	276
45°	210	226	253	229	218	166
55°	99	107	113	109	102	91
65°	44	41	38	41	45	45
75°	8	8	7	8	8	10
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°	1455.3	1455.3	1455.3	1455.3	1455.3
2.5°	1442.0	1443.4	1444.7	1443.4	1443.4
5°	1410.3	1410.3	1410.3	1410.3	1410.3
7.5°	1358.6	1361.3	1359.9	1359.9	1358.6
10°	1291.1	1297.7	1301.7	1297.7	1292.4
12.5°	1216.9	1224.9	1232.8	1223.6	1218.3
15°	1133.5	1144.1	1156.0	1145.4	1132.2
17.5°	1043.5	1060.7	1077.9	1060.7	1046.1
20°	956.1	975.9	995.8	974.6	957.4
22.5°	863.4	881.9	912.4	884.6	867.3
25°	770.7	797.2	830.3	798.5	776.0
27.5°	682.0	709.8	749.5	715.1	688.6
30°	595.9	626.3	668.7	631.6	603.8
32.5°	515.1	545.6	586.6	550.9	523.1
35°	441.0	468.8	509.8	474.1	450.2
37.5°	373.4	395.9	431.7	401.2	382.7
40°	309.9	331.0	364.2	335.0	317.8
42.5°	254.2	274.1	305.9	279.4	264.8
45°	210.5	226.4	252.9	229.1	218.5
47.5°	173.5	188.0	209.2	189.4	180.1
50°	143.0	154.9	172.1	157.6	149.6
52.5°	119.2	129.8	143.0	131.1	123.1
55°	99.3	107.3	112.6	108.6	102.0
57.5°	83.4	86.1	87.4	87.4	86.1
60°	70.2	67.5	67.5	68.9	71.5
62.5°	58.3	53.0	51.6	54.3	59.6
65°	43.7	41.0	38.4	41.0	45.0
67.5°	33.1	29.1	27.8	30.5	34.4
70°	23.8	21.2	19.9	21.2	23.8
72.5°	14.6	14.6	11.9	14.6	14.6
75°	7.9	7.9	6.6	7.9	7.9
77.5°	2.6	2.6	1.3	2.6	4.0
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)