

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: P238314

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238314  
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  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SHALLOW TRIM MATTE BLACK  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

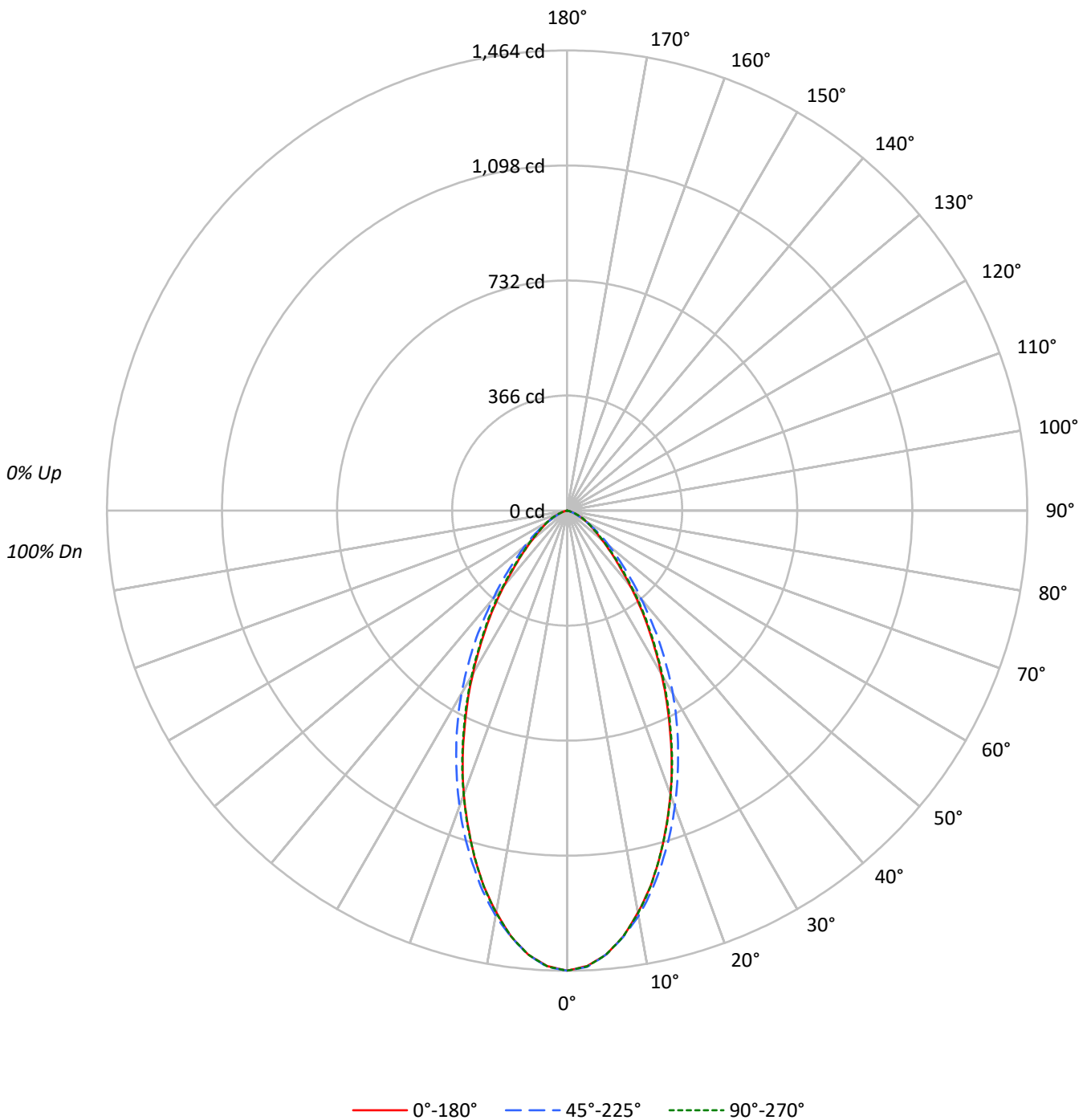
Lumens per Lamp: N/A  
Luminaire Lumens: 1451.3 lumens  
Efficiency: N/A  
Efficacy: 115.2 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.89  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83
3	99	92	86	82	97	91	85	81	88	83	80	85	82	78	83	80	77	75
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63
6	83	73	66	61	81	72	65	61	70	65	60	69	64	60	67	63	59	58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	55	51	50
9	70	59	53	48	69	59	52	48	58	52	48	57	52	48	56	51	48	46
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43

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

	0°	45°	90°
0°	63016	63016	63016
5°	61299	61299	61299
10°	56770	57234	56827
15°	50815	51822	50757
20°	44055	45888	44119
25°	36822	39668	37074
30°	29795	33434	30193
35°	23311	26948	23800
40°	17514	20582	17963
45°	12896	15490	13378
50°	9632	11595	10081
55°	7499	8497	7694
60°	6079	5847	6191
65°	4472	3933	4615
70°	3021	2518	3021
75°	1331	1115	1331
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.7	9.1
10°-20°	320.8	22.1
20°-30°	368.3	25.4
30°-40°	298.1	20.5
40°-50°	182.7	12.6
50°-60°	98.1	6.8
60°-70°	42.4	2.9
70°-80°	9.2	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°	820.8	56.6
0°-40°	1118.9	77.1
0°-60°	1399.7	96.4
0°-90°	1451.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1451.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1464	1464	1464	1464	1464	
5°	1418	1418	1418	1418	1418	132
15°	1140	1151	1163	1152	1139	317
25°	775	802	835	803	780	355
35°	444	471	513	477	453	278
45°	212	228	254	230	220	167
55°	100	108	113	109	102	92
65°	44	41	39	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°	1463.6	1463.6	1463.6	1463.6	1463.6
2.5°	1450.3	1451.6	1453.0	1451.6	1451.6
5°	1418.3	1418.3	1418.3	1418.3	1418.3
7.5°	1366.4	1369.1	1367.7	1367.7	1366.4
10°	1298.5	1305.1	1309.1	1305.1	1299.8
12.5°	1223.9	1231.9	1239.9	1230.6	1225.2
15°	1140.0	1150.6	1162.6	1152.0	1138.7
17.5°	1049.4	1066.7	1084.1	1066.7	1052.1
20°	961.5	981.5	1001.5	980.2	962.9
22.5°	868.3	887.0	917.6	889.6	872.3
25°	775.1	801.7	835.0	803.1	780.4
27.5°	685.9	713.8	753.8	719.2	692.5
30°	599.3	629.9	672.5	635.3	607.3
32.5°	518.1	548.7	590.0	554.0	526.0
35°	443.5	471.4	512.7	476.8	452.8
37.5°	375.6	398.2	434.2	403.5	384.9
40°	311.6	332.9	366.2	336.9	319.6
42.5°	255.7	275.7	307.6	281.0	266.4
45°	211.8	227.7	254.4	230.4	219.7
47.5°	174.5	189.1	210.4	190.4	181.1
50°	143.8	155.8	173.1	158.5	150.5
52.5°	119.9	130.5	143.8	131.8	123.9
55°	99.9	107.9	113.2	109.2	102.5
57.5°	83.9	86.6	87.9	87.9	86.6
60°	70.6	67.9	67.9	69.3	71.9
62.5°	58.6	53.3	51.9	54.6	59.9
65°	43.9	41.3	38.6	41.3	45.3
67.5°	33.3	29.3	28.0	30.6	34.6
70°	24.0	21.3	20.0	21.3	24.0
72.5°	14.6	14.6	12.0	14.6	14.6
75°	8.0	8.0	6.7	8.0	8.0
77.5°	2.7	2.7	1.3	2.7	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)