

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: P238044

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238044  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-7)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS615D010-S6M12-64SNDH  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SHALLOW TRIM HAZE  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1508.5 lumens  
Efficiency: N/A  
Efficacy: 119.7 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.85  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

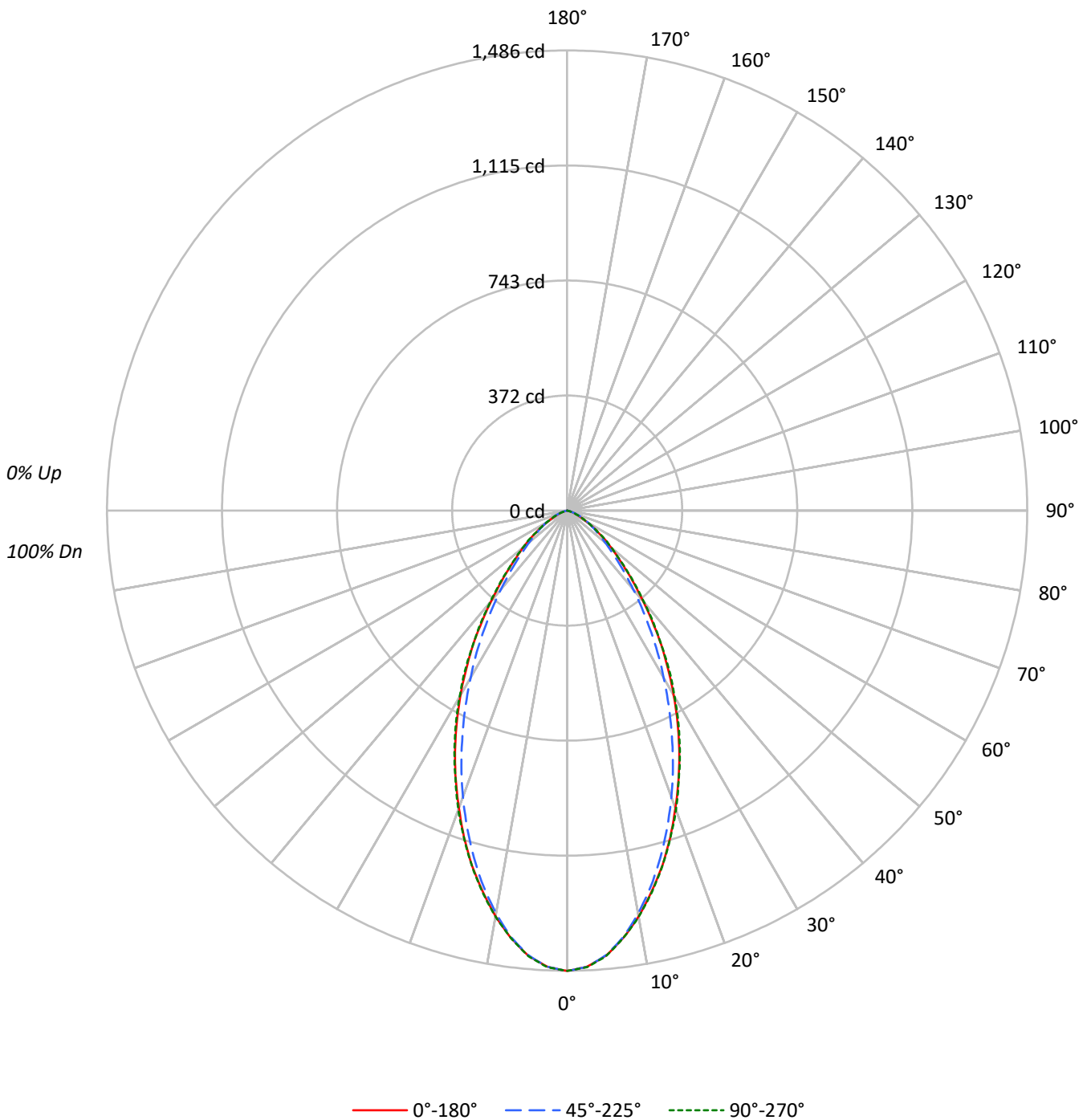
Input Watts (W): 12.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91				
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83				
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77	75				
4	93	84	78	73	91	83	77	73	81	76	72	79	74	71	77	73	70	68				
5	88	78	71	66	86	77	71	66	75	69	65	73	68	65	72	67	64	62				
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57				
7	78	67	60	56	76	66	60	55	65	59	55	64	59	55	63	58	54	53				
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49				
9	70	59	52	48	68	58	52	48	57	51	47	56	51	47	55	51	47	46				
10	66	55	49	44	65	55	49	44	54	48	44	53	48	44	52	47	44	43				

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

	0°	45°	90°
0°	64002	64002	64002
5°	62349	62289	62406
10°	58178	57771	58235
15°	52901	51773	52963
20°	46813	45104	47116
25°	40689	37967	40941
30°	34240	30993	34503
35°	27863	24436	27936
40°	21414	18643	21712
45°	16142	14029	16465
50°	12311	10704	12579
55°	9195	8400	9195
60°	6424	6768	6536
65°	4340	5155	4483
70°	3021	3349	2845
75°	1331	1547	1331
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.0	8.9
10°-20°	327.2	21.7
20°-30°	378.5	25.1
30°-40°	309.9	20.5
40°-50°	193.8	12.8
50°-60°	106.6	7.1
60°-70°	47.5	3.2
70°-80°	10.9	0.7
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°	839.8	55.7
0°-40°	1149.6	76.2
0°-60°	1450.1	96.1
0°-90°	1508.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1508.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1486	1486	1486	1486	1486	
5°	1443	1441	1441	1444	1444	134
15°	1187	1174	1162	1176	1188	331
25°	856	823	799	827	862	392
35°	530	490	465	494	532	330
45°	265	242	230	246	270	208
55°	122	117	112	120	122	111
65°	43	47	51	47	44	45
75°	8	9	9	9	8	9
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°	1486.5	1486.5	1486.5	1486.5	1486.5
2.5°	1474.5	1475.9	1474.5	1475.9	1475.9
5°	1442.6	1441.2	1441.2	1443.9	1443.9
7.5°	1392.0	1390.6	1389.3	1392.0	1392.0
10°	1330.7	1328.0	1321.4	1329.3	1332.0
12.5°	1260.1	1254.8	1245.4	1254.8	1262.7
15°	1186.8	1173.5	1161.5	1176.2	1188.2
17.5°	1106.9	1089.6	1073.6	1088.3	1108.2
20°	1021.7	1001.7	984.4	1003.0	1028.3
22.5°	940.4	912.4	892.4	915.1	941.7
25°	856.5	823.2	799.2	827.2	861.8
27.5°	771.2	735.3	710.0	740.6	779.2
30°	688.7	650.0	623.4	656.7	694.0
32.5°	606.1	570.1	543.5	575.4	615.4
35°	530.1	490.2	464.9	494.2	531.5
37.5°	451.6	415.6	395.6	420.9	458.2
40°	381.0	349.0	331.7	354.3	386.3
42.5°	319.7	291.7	277.1	294.4	326.3
45°	265.1	242.4	230.4	246.4	270.4
47.5°	219.8	202.5	190.5	205.1	223.8
50°	183.8	167.8	159.8	170.5	187.8
52.5°	151.8	141.2	131.9	142.5	155.8
55°	122.5	117.2	111.9	119.9	122.5
57.5°	95.9	94.6	93.2	95.9	97.2
60°	74.6	75.9	78.6	75.9	75.9
62.5°	57.3	59.9	65.3	59.9	58.6
65°	42.6	46.6	50.6	46.6	44.0
67.5°	32.0	34.6	37.3	34.6	32.0
70°	24.0	25.3	26.6	25.3	22.6
72.5°	14.7	17.3	17.3	17.3	14.7
75°	8.0	9.3	9.3	9.3	8.0
77.5°	1.3	4.0	4.0	4.0	1.3
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)