

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: P238224

Luminaire Tested: **PRS615D010-S6M12-61SNDH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238224  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-19)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS615D010-S6M12-61SNDH  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, DEEP TRIM HAZE  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1445.9 lumens  
Efficiency: N/A  
Efficacy: 114.8 lumens/watt  
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.84  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

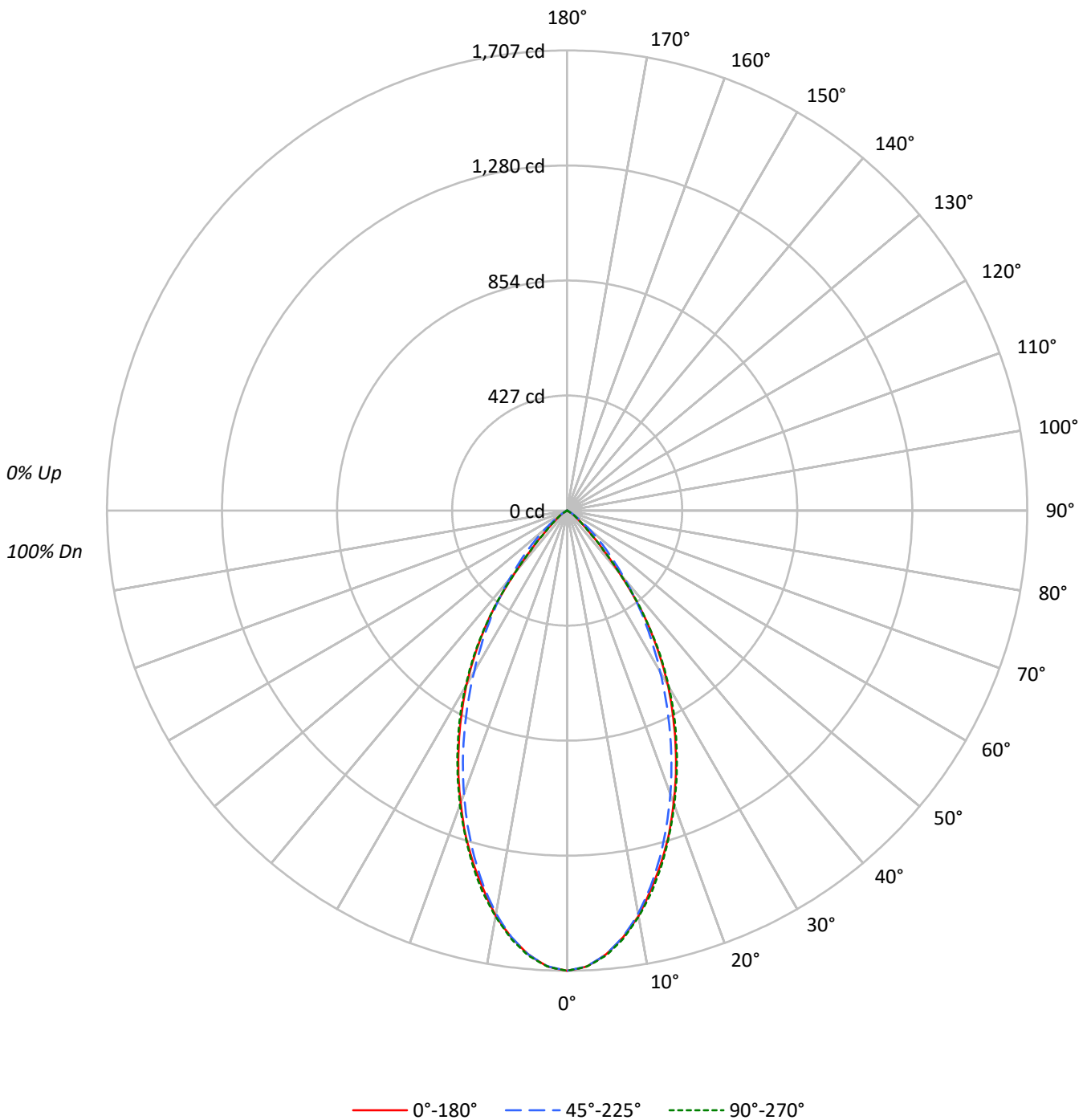
Input Watts (W): 12.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P238224

CATALOG NUMBER: PRS615D010-S6M12-61SNDH

### Luminous Intensity Polar Plot





TEST NUMBER: P238224

CATALOG NUMBER: PRS615D010-S6M12-61SNDH

**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	111	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93
2	108	102	98	95	105	101	97	94	98	94	92	95	92	90	92	90	88	86
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	86	84	81	80
4	96	89	83	79	95	87	82	78	85	81	77	83	79	76	81	78	75	74
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	68
6	87	77	71	67	85	77	71	66	75	70	66	74	69	66	72	68	65	64
7	82	72	66	62	81	72	66	62	70	65	61	69	65	61	68	64	61	59
8	78	68	62	58	77	68	62	58	66	61	57	65	61	57	64	60	57	55
9	74	64	58	54	73	64	58	54	63	57	54	62	57	53	61	57	53	52
10	71	61	55	51	69	60	54	51	59	54	50	58	54	50	58	53	50	49

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

	0°	45°	90°
0°	73509	73509	73509
5°	71430	71430	71603
10°	66725	66375	66839
15°	60193	59302	60550
20°	52902	51258	53269
25°	45174	42832	45616
30°	37208	34294	37476
35°	28068	26459	28210
40°	16839	18862	16839
45°	7946	12324	7946
50°	4106	7047	4012
55°	2297	3100	2297
60°	921	1378	921
65°	275	540	275
70°	164	164	164
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P238224

CATALOG NUMBER: PRS615D010-S6M12-61SNDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.7	10.6
10°-20°	373.6	25.8
20°-30°	423.8	29.3
30°-40°	320.5	22.2
40°-50°	134.5	9.3
50°-60°	34.9	2.4
60°-70°	4.5	0.3
70°-80°	0.5	0.0
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°	951.1	65.8
0°-40°	1271.5	87.9
0°-60°	1440.9	99.7
0°-90°	1445.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1445.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1707	1707	1707	1707	1707	
5°	1653	1654	1653	1655	1657	154
15°	1350	1341	1330	1344	1358	376
25°	951	924	902	930	960	435
35°	534	511	503	515	537	327
45°	130	160	202	160	130	113
55°	31	36	41	36	31	29
65°	3	1	5	1	3	3
75°	0	0	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P238224

CATALOG NUMBER: PRS615D010-S6M12-61SNDH

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1707.3	1707.3	1707.3	1707.3	1707.3
2.5°	1692.7	1691.3	1691.3	1692.7	1692.7
5°	1652.7	1654.0	1652.7	1655.4	1656.7
7.5°	1595.4	1595.4	1594.1	1596.8	1600.8
10°	1526.2	1520.9	1518.2	1523.5	1528.8
12.5°	1438.3	1434.3	1429.0	1438.3	1448.9
15°	1350.4	1341.1	1330.4	1343.7	1358.4
17.5°	1257.2	1238.5	1226.5	1243.9	1259.8
20°	1154.6	1136.0	1118.7	1137.3	1162.6
22.5°	1054.7	1028.1	1010.8	1032.1	1061.4
25°	950.9	924.2	901.6	929.6	960.2
27.5°	847.0	819.0	793.7	824.4	860.3
30°	748.4	713.8	689.8	721.8	753.8
32.5°	639.2	607.3	594.0	616.6	649.9
35°	534.0	511.4	503.4	515.4	536.7
37.5°	419.5	414.2	416.8	422.2	426.2
40°	299.6	324.9	335.6	326.3	299.6
42.5°	199.8	234.4	262.4	234.4	202.4
45°	130.5	159.8	202.4	159.8	130.5
47.5°	85.2	107.9	150.5	106.5	85.2
50°	61.3	71.9	105.2	71.9	59.9
52.5°	43.9	50.6	67.9	50.6	43.9
55°	30.6	36.0	41.3	36.0	30.6
57.5°	20.0	24.0	24.0	24.0	20.0
60°	10.7	14.6	16.0	14.6	10.7
62.5°	2.7	6.7	9.3	6.7	2.7
65°	2.7	1.3	5.3	1.3	2.7
67.5°	1.3	1.3	2.7	1.3	1.3
70°	1.3	1.3	1.3	1.3	1.3
72.5°	1.3	1.3	1.3	1.3	1.3
75°	0.0	0.0	0.0	0.0	0.0
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)