

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: P238239

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238239
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
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM 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: 1390.0 lumens
Efficiency: N/A
Efficacy: 110.3 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

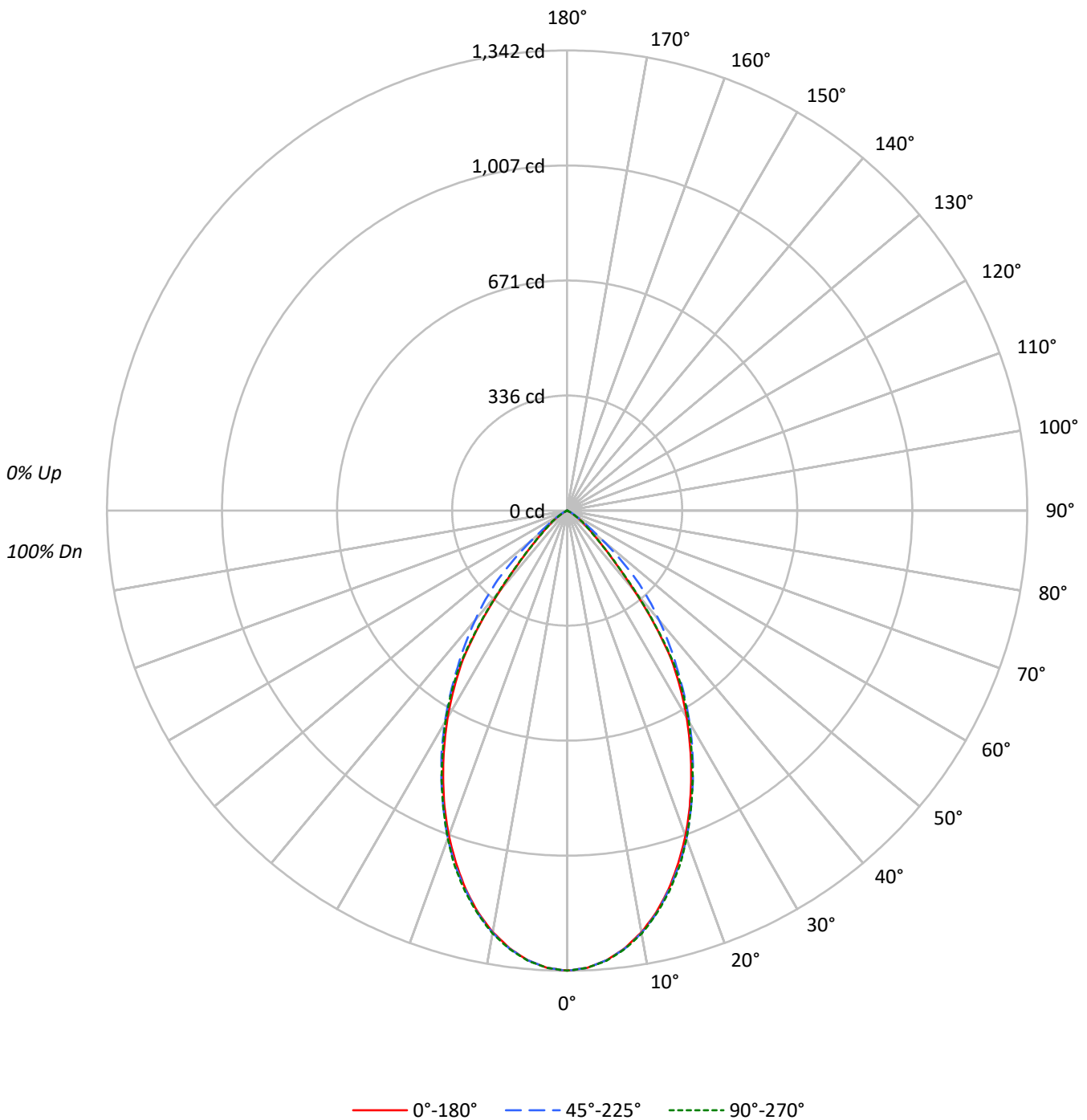
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P238239

CATALOG NUMBER: PRS615D010-S6M12-61SMDH

Luminous Intensity Polar Plot





TEST NUMBER: P238239

CATALOG NUMBER: PRS615D010-S6M12-61SMDH

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	57759	57759	57759
5°	56891	56891	56947
10°	54580	54694	54755
15°	50958	51078	51256
20°	46222	46648	46648
25°	40656	41222	41160
30°	34672	35468	35269
35°	27842	29240	28399
40°	16980	23415	17502
45°	8993	17421	9079
50°	5171	9002	5171
55°	3198	3896	3198
60°	1145	1834	1145
65°	275	683	275
70°	164	164	164
75°	216	216	216
80°	0	0	0
85°	0	0	0



TEST NUMBER: P238239

CATALOG NUMBER: PRS615D010-S6M12-61SMDH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.6	8.9
10°-20°	320.1	23.0
20°-30°	395.1	28.4
30°-40°	337.4	24.3
40°-50°	161.5	11.6
50°-60°	45.4	3.3
60°-70°	5.9	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°	838.9	60.3
0°-40°	1176.3	84.6
0°-60°	1383.2	99.5
0°-90°	1390.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1390.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1342	1342	1342	1342	1342	
5°	1316	1318	1316	1318	1318	123
15°	1143	1145	1146	1150	1150	319
25°	856	860	868	868	866	392
35°	530	550	556	556	540	319
45°	148	184	286	185	149	124
55°	43	49	52	48	43	38
65°	3	3	7	3	3	4
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P238239

CATALOG NUMBER: PRS615D010-S6M12-61SMDH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1341.5	1341.5	1341.5	1341.5	1341.5
2.5°	1334.9	1334.9	1334.9	1334.9	1334.9
5°	1316.3	1317.6	1316.3	1317.6	1317.6
7.5°	1287.0	1288.3	1288.3	1289.6	1289.6
10°	1248.4	1249.7	1251.0	1251.0	1252.4
12.5°	1200.5	1200.5	1203.1	1204.5	1204.5
15°	1143.2	1144.6	1145.9	1149.9	1149.9
17.5°	1078.0	1080.7	1084.7	1086.0	1088.7
20°	1008.8	1008.8	1018.1	1016.8	1018.1
22.5°	934.3	938.3	942.3	944.9	942.3
25°	855.8	859.8	867.7	867.7	866.4
27.5°	777.2	781.2	791.9	787.9	785.2
30°	697.4	701.4	713.4	706.7	709.4
32.5°	614.9	626.9	633.5	633.5	626.9
35°	529.7	549.7	556.3	556.3	540.3
37.5°	419.2	467.1	485.8	471.1	424.6
40°	302.1	364.7	416.6	371.3	311.4
42.5°	211.6	264.8	352.7	268.8	214.3
45°	147.7	183.7	286.1	185.0	149.1
47.5°	103.8	127.8	207.6	127.8	103.8
50°	77.2	90.5	134.4	89.2	77.2
52.5°	58.6	66.5	82.5	65.2	58.6
55°	42.6	49.2	51.9	47.9	42.6
57.5°	26.6	33.3	33.3	33.3	25.3
60°	13.3	18.6	21.3	18.6	13.3
62.5°	4.0	8.0	13.3	8.0	4.0
65°	2.7	2.7	6.7	2.7	2.7
67.5°	2.7	2.7	2.7	2.7	2.7
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)