

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: P238193

Luminaire Tested: **PRS610D010-S6M12-61SMDMW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238193
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-17)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS610D010-S6M12-61SMDMW
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, DEEP TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1066.0 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.97 / 1.03
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

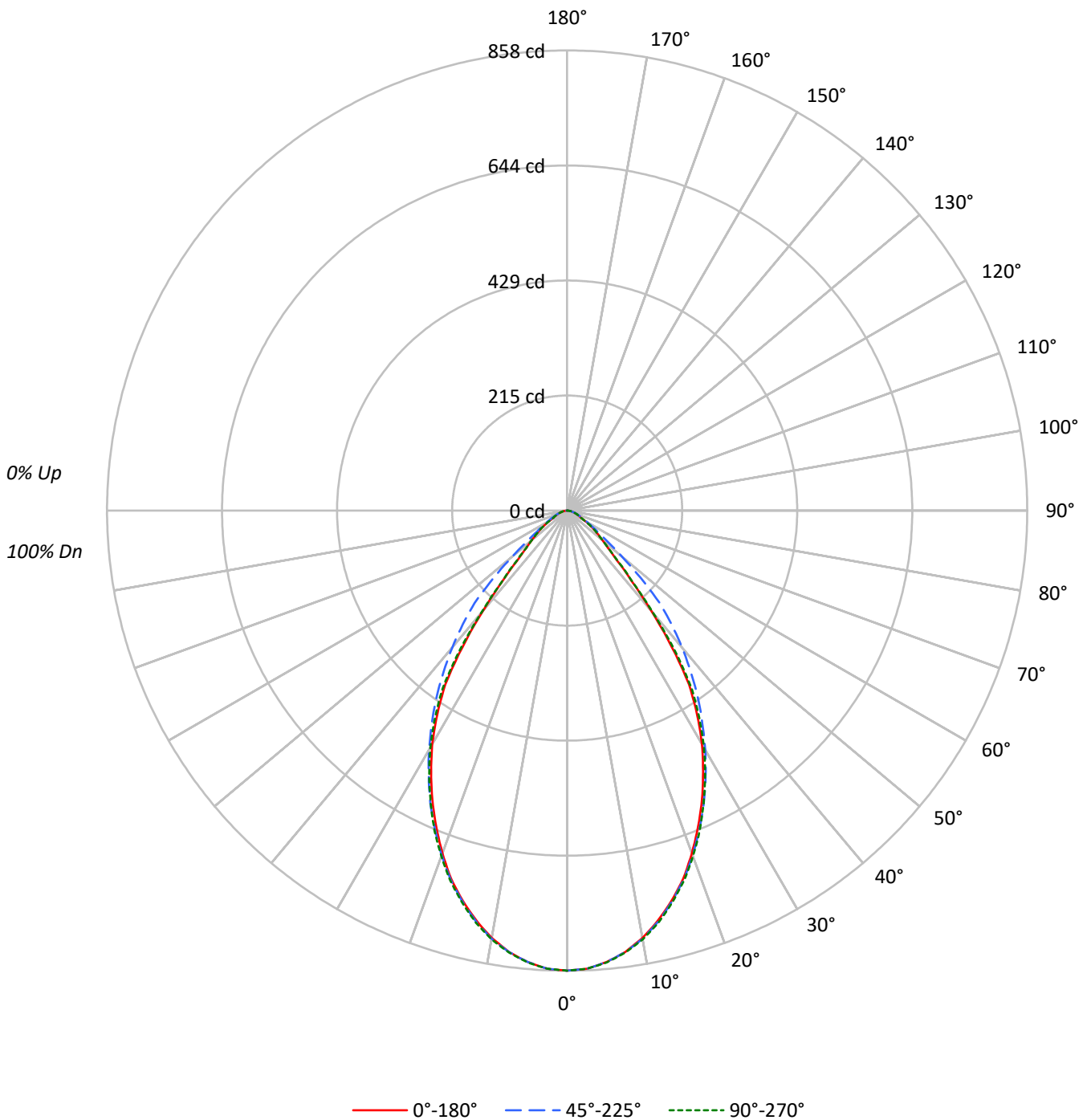
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P238193

CATALOG NUMBER: PRS610D010-S6M12-61SMDMW

Luminous Intensity Polar Plot





TEST NUMBER: P238193

CATALOG NUMBER: PRS610D010-S6M12-61SMDMW

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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91					91			
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82					82			
3	99	91	85	80	97	90	84	80	87	82	79	84	81	77	82	79	76	74					74			
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67					67			
5	87	77	70	65	85	76	70	65	74	69	64	73	68	64	71	67	63	61					61			
6	82	71	64	59	80	71	64	59	69	63	59	67	62	58	66	61	58	56					56			
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52					52			
8	73	62	55	50	71	61	55	50	60	54	50	59	53	49	58	53	49	48					48			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44					44			
10	65	54	47	43	64	54	47	43	53	47	43	52	46	43	51	46	43	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	36937	36937	36937
5°	36517	36517	36560
10°	35365	35452	35496
15°	33560	33649	33738
20°	31152	31336	31427
25°	28266	28647	28599
30°	25007	25604	25355
35°	20814	22339	21287
40°	13714	18716	13995
45°	8037	14857	8281
50°	5761	8842	5761
55°	4504	5255	4579
60°	3272	3789	3272
65°	2649	2954	2649
70°	2266	2392	2392
75°	1996	1996	1996
80°	1736	1736	1736
85°	1482	1482	1482



TEST NUMBER: P238193

CATALOG NUMBER: PRS610D010-S6M12-61SMDMW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.6	7.5
10°-20°	211.3	19.8
20°-30°	274.9	25.8
30°-40°	253.8	23.8
40°-50°	140.5	13.2
50°-60°	60.8	5.7
60°-70°	27.9	2.6
70°-80°	13.5	1.3
80°-90°	3.6	0.3
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°	565.8	53.1
0°-40°	819.7	76.9
0°-60°	1021.0	95.8
0°-90°	1066.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1066.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	858	858	858	858	858	
5°	845	846	845	846	846	80
15°	753	754	755	757	757	211
25°	595	597	603	604	602	272
35°	396	411	425	416	405	239
45°	132	162	244	166	136	110
55°	60	67	70	67	61	54
65°	26	27	29	27	26	26
75°	12	13	12	13	12	13
85°	3	3	3	3	3	4
90°	0	0	0	0	0	



TEST NUMBER: P238193

CATALOG NUMBER: PRS610D010-S6M12-61SMDMW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	857.9	857.9	857.9	857.9	857.9
2.5°	854.9	854.9	854.9	854.9	854.9
5°	844.9	845.9	844.9	845.9	845.9
7.5°	829.9	830.9	829.9	830.9	830.9
10°	808.9	808.9	810.9	810.9	811.9
12.5°	782.9	783.9	784.9	785.9	786.9
15°	752.9	753.9	754.9	756.9	756.9
17.5°	719.9	718.9	721.9	721.9	723.9
20°	679.9	681.9	683.9	684.9	685.9
22.5°	638.0	640.0	643.9	644.9	645.9
25°	595.0	597.0	603.0	604.0	602.0
27.5°	549.0	554.0	559.0	558.0	557.0
30°	503.0	506.0	515.0	512.0	510.0
32.5°	451.0	461.0	469.0	465.0	459.0
35°	396.0	411.0	425.0	416.0	405.0
37.5°	321.0	360.0	378.0	364.0	331.0
40°	244.0	290.0	333.0	295.0	249.0
42.5°	178.0	220.0	288.0	225.0	181.0
45°	132.0	162.0	244.0	166.0	136.0
47.5°	103.0	124.0	186.0	124.0	104.0
50°	86.0	97.0	132.0	98.0	86.0
52.5°	72.0	80.0	94.0	80.0	72.0
55°	60.0	67.0	70.0	67.0	61.0
57.5°	48.0	55.0	54.0	55.0	49.0
60°	38.0	43.0	44.0	43.0	38.0
62.5°	29.0	33.0	36.0	33.0	29.0
65°	26.0	27.0	29.0	27.0	26.0
67.5°	22.0	23.0	23.0	23.0	22.0
70°	18.0	19.0	19.0	19.0	19.0
72.5°	15.0	16.0	16.0	16.0	15.0
75°	12.0	13.0	12.0	13.0	12.0
77.5°	9.0	10.0	10.0	10.0	10.0
80°	7.0	7.0	7.0	7.0	7.0
82.5°	5.0	5.0	5.0	5.0	5.0
85°	3.0	3.0	3.0	3.0	3.0
87.5°	2.0	2.0	1.0	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)