

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: P238198

Luminaire Tested: **PRS610D010-S6M12-61SMDMW-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238198
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-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, DEEP TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1059.9 lumens
Efficiency: N/A
Efficacy: 106.0 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

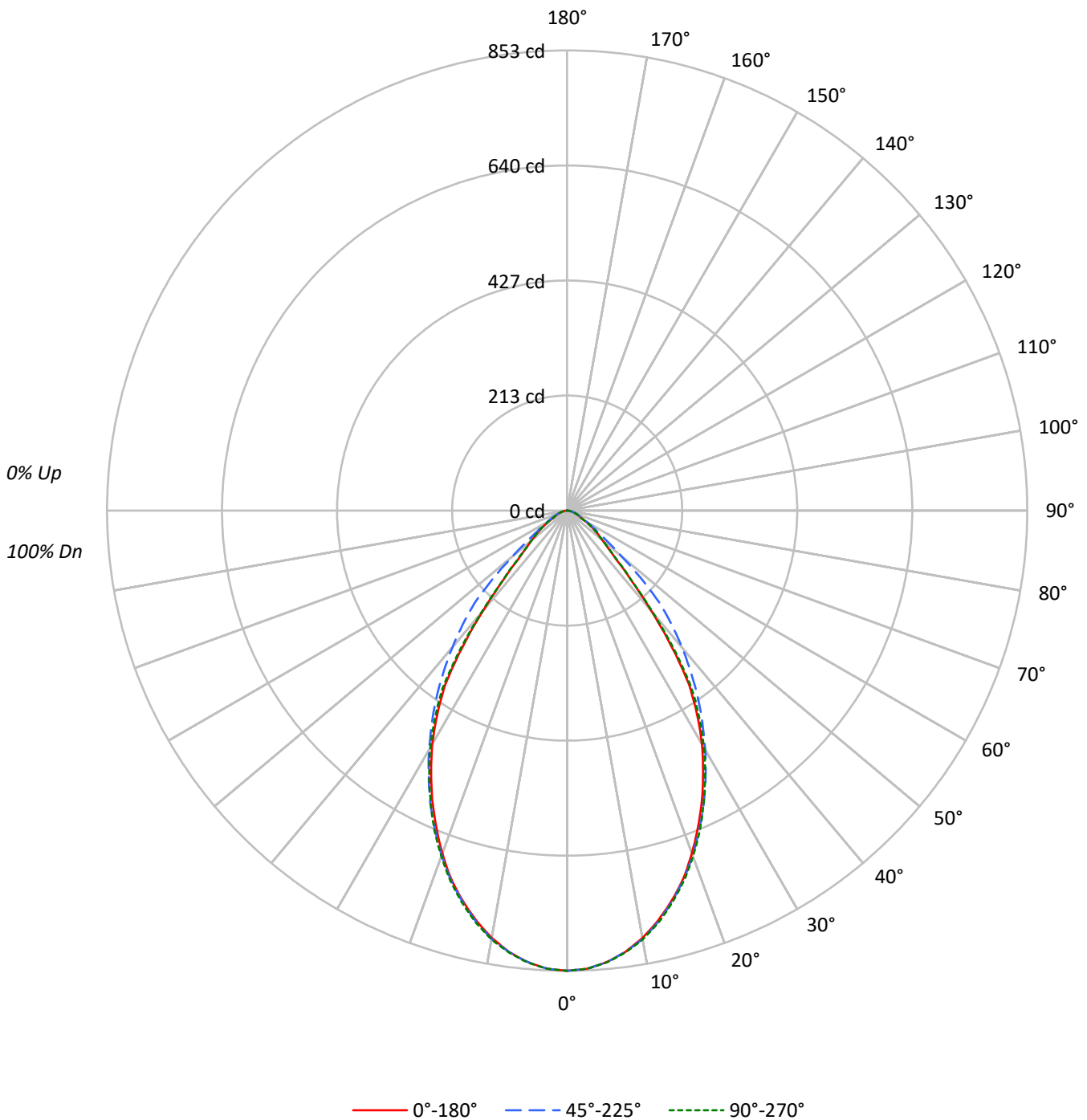
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P238198

CATALOG NUMBER: PRS610D010-S6M12-61SMDMW-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P238198

CATALOG NUMBER: PRS610D010-S6M12-61SMDMW-4000K

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°	36731	36731	36731
5°	36309	36309	36352
10°	35164	35251	35295
15°	33373	33458	33547
20°	30978	31161	31248
25°	28105	28480	28433
30°	24863	25455	25211
35°	20693	22207	21166
40°	13635	18610	13916
45°	7989	14772	8232
50°	5727	8788	5727
55°	4481	5225	4549
60°	3255	3763	3255
65°	2639	2934	2639
70°	2253	2379	2379
75°	1980	1980	1980
80°	1736	1736	1736
85°	1482	1482	1482



TEST NUMBER: P238198

CATALOG NUMBER: PRS610D010-S6M12-61SMDMW-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.1	7.5
10°-20°	210.1	19.8
20°-30°	273.3	25.8
30°-40°	252.4	23.8
40°-50°	139.7	13.2
50°-60°	60.5	5.7
60°-70°	27.8	2.6
70°-80°	13.4	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°	562.6	53.1
0°-40°	815.0	76.9
0°-60°	1015.2	95.8
0°-90°	1059.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1059.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	853	853	853	853	853	
5°	840	841	840	841	841	79
15°	749	750	751	753	753	210
25°	592	594	600	600	598	271
35°	394	409	422	414	403	238
45°	131	161	243	165	135	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: P238198

CATALOG NUMBER: PRS610D010-S6M12-61SMDMW-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	853.1	853.1	853.1	853.1	853.1
2.5°	850.1	850.1	850.1	850.1	850.1
5°	840.1	841.1	840.1	841.1	841.1
7.5°	825.2	826.2	825.2	826.2	826.2
10°	804.3	804.3	806.3	806.3	807.3
12.5°	778.5	779.5	780.5	781.5	782.5
15°	748.7	749.7	750.6	752.6	752.6
17.5°	715.8	714.9	717.8	717.8	719.8
20°	676.1	678.1	680.1	681.0	682.0
22.5°	634.3	636.3	640.3	641.3	642.3
25°	591.6	593.6	599.5	600.5	598.5
27.5°	545.8	550.8	555.8	554.8	553.8
30°	500.1	503.1	512.0	509.0	507.1
32.5°	448.4	458.3	466.3	462.3	456.4
35°	393.7	408.6	422.5	413.6	402.7
37.5°	319.1	357.9	375.8	361.9	329.1
40°	242.6	288.3	331.1	293.3	247.6
42.5°	177.0	218.7	286.3	223.7	180.0
45°	131.2	161.1	242.6	165.0	135.2
47.5°	102.4	123.3	184.9	123.3	103.4
50°	85.5	96.4	131.2	97.4	85.5
52.5°	71.6	79.5	93.5	79.5	71.6
55°	59.7	66.6	69.6	66.6	60.6
57.5°	47.7	54.7	53.7	54.7	48.7
60°	37.8	42.8	43.7	42.8	37.8
62.5°	28.8	32.8	35.8	32.8	28.8
65°	25.9	26.8	28.8	26.8	25.9
67.5°	21.9	22.9	22.9	22.9	21.9
70°	17.9	18.9	18.9	18.9	18.9
72.5°	14.9	15.9	15.9	15.9	14.9
75°	11.9	12.9	11.9	12.9	11.9
77.5°	8.9	9.9	9.9	9.9	9.9
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)