

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: P253074

Luminaire Tested: **PRS615D010-S6M12-61SWDH-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253074
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1805-776-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS615D010-S6M12-61SWDH-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1231.3 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

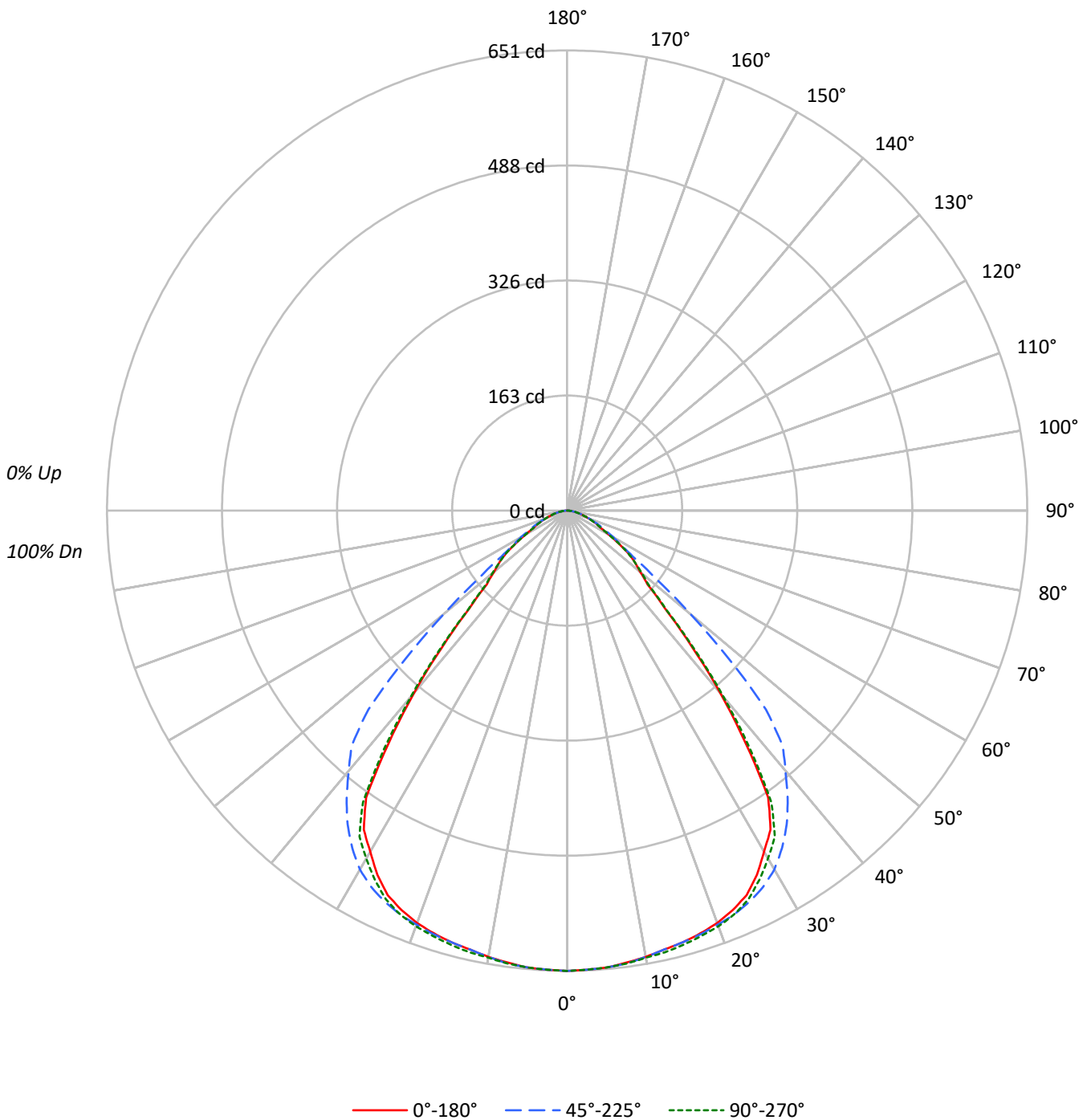
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P253074

CATALOG NUMBER: PRS615D010-S6M12-61SWDH-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P253074

CATALOG NUMBER: PRS615D010-S6M12-61SWDH-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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	77	71	66	74	69	65	72	68	65	63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51
7	73	61	54	49	71	61	53	48	59	53	48	58	52	48	57	51	47	46
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	40	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	37	46	40	36	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	28042	28042	28042
5°	28041	28041	28041
10°	28029	28029	28086
15°	28180	28180	28349
20°	28444	28559	28678
25°	28523	29008	28822
30°	27692	29149	28264
35°	26060	28472	26465
40°	18913	27007	19346
45°	11874	24216	12105
50°	9049	15198	9224
55°	7942	8512	7942
60°	5821	6476	5821
65°	4809	5196	4809
70°	4016	4167	4016
75°	3394	3394	3394
80°	2851	2851	2851
85°	2519	2519	2519



TEST NUMBER: P253074

CATALOG NUMBER: PRS615D010-S6M12-61SWDH-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.7	5.0
10°-20°	179.2	14.6
20°-30°	278.8	22.6
30°-40°	318.6	25.9
40°-50°	213.1	17.3
50°-60°	102.0	8.3
60°-70°	49.7	4.0
70°-80°	22.4	1.8
80°-90°	5.7	0.5
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°	519.7	42.2
0°-40°	838.3	68.1
0°-60°	1153.5	93.7
0°-90°	1231.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1231.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	651	651	651	651	651	
5°	649	649	649	649	649	62
15°	632	632	632	635	636	179
25°	600	604	611	609	607	275
35°	496	524	542	532	504	295
45°	195	251	398	255	199	162
55°	106	113	113	115	106	92
65°	47	48	51	48	47	47
75°	20	20	20	20	20	22
85°	5	5	5	5	5	6
90°	0	0	0	0	0	



TEST NUMBER: P253074

CATALOG NUMBER: PRS615D010-S6M12-61SWDH-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	651.3	651.3	651.3	651.3	651.3
2.5°	650.1	650.1	650.1	650.1	650.1
5°	648.8	648.8	648.8	648.8	648.8
7.5°	645.0	645.0	646.2	645.0	646.2
10°	641.1	641.1	641.1	642.4	642.4
12.5°	636.0	636.0	636.0	638.6	639.9
15°	632.2	632.2	632.2	634.8	636.0
17.5°	627.1	627.1	628.4	631.0	631.0
20°	620.8	622.0	623.3	625.9	625.9
22.5°	611.8	614.4	618.2	619.5	618.2
25°	600.4	604.2	610.6	609.3	606.7
27.5°	581.2	590.2	600.4	595.3	588.9
30°	557.0	571.0	586.3	576.1	568.5
32.5°	535.4	546.8	565.9	554.5	546.8
35°	495.8	523.9	541.7	531.5	503.5
37.5°	415.5	478.0	512.4	485.6	425.7
40°	336.5	402.8	480.5	407.9	344.2
42.5°	261.3	325.0	451.2	330.1	266.4
45°	195.0	251.1	397.7	254.9	198.8
47.5°	154.2	186.1	309.7	189.9	156.8
50°	135.1	147.9	226.9	150.4	137.7
52.5°	121.1	128.7	158.1	130.0	121.1
55°	105.8	113.4	113.4	114.7	105.8
57.5°	85.4	96.9	89.2	96.9	86.7
60°	67.6	76.5	75.2	76.5	67.6
62.5°	54.8	59.9	61.2	59.9	54.8
65°	47.2	48.4	51.0	48.4	47.2
67.5°	39.5	40.8	40.8	40.8	38.2
70°	31.9	33.1	33.1	33.1	31.9
72.5°	25.5	26.8	26.8	26.8	25.5
75°	20.4	20.4	20.4	20.4	20.4
77.5°	15.3	16.6	15.3	16.6	15.3
80°	11.5	11.5	11.5	11.5	11.5
82.5°	7.6	7.6	7.6	7.6	7.6
85°	5.1	5.1	5.1	5.1	5.1
87.5°	2.5	2.5	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)