

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: P253079

Luminaire Tested: **PRS615D010-S6M12-61SWDMW-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253079
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-S6M12-61SWDMW-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1233.4 lumens
Efficiency: N/A
Efficacy: 97.9 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

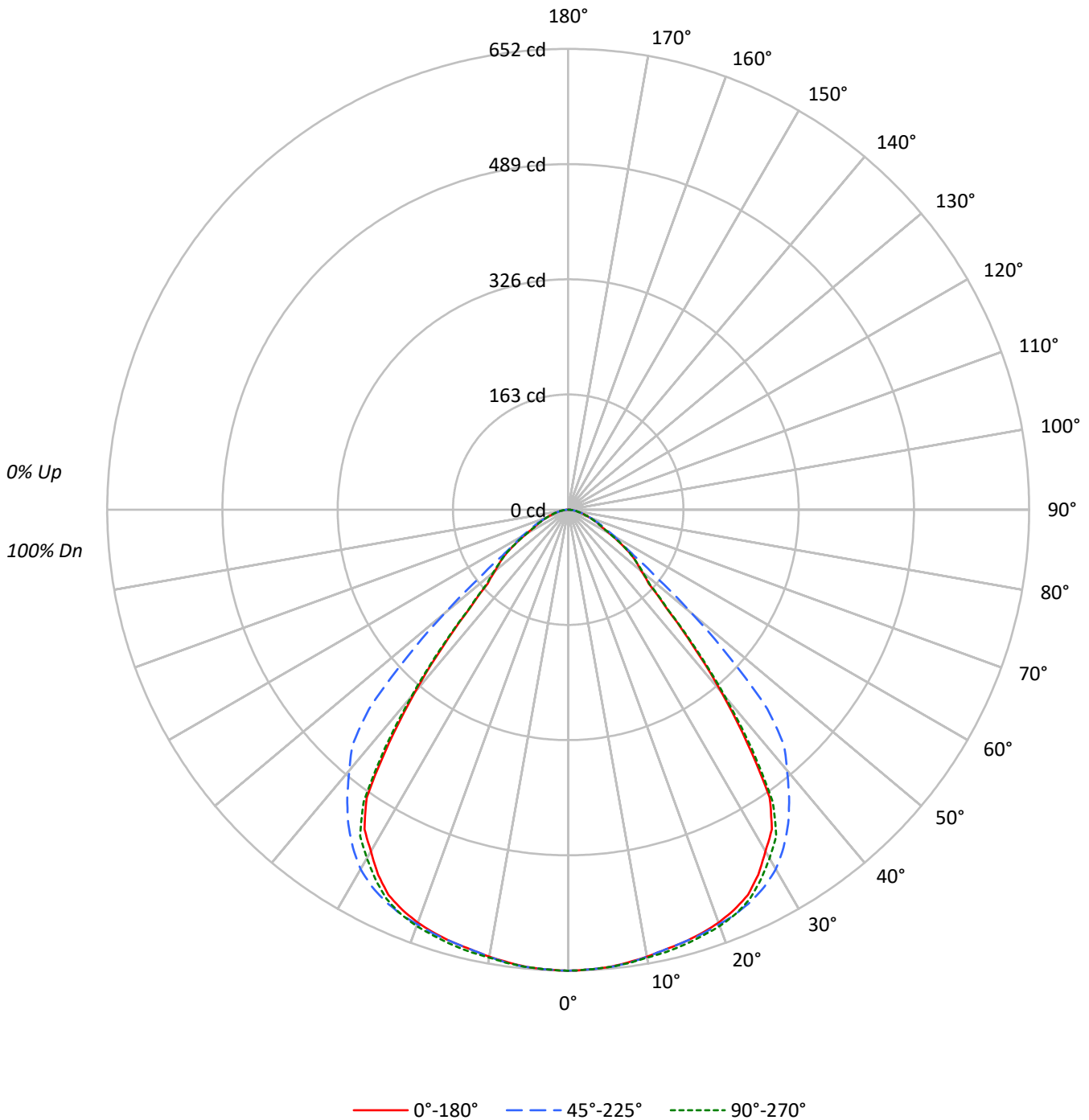
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	28090	28090	28090
5°	28089	28089	28089
10°	28077	28077	28134
15°	28229	28229	28398
20°	28490	28605	28724
25°	28571	29055	28870
30°	27742	29198	28309
35°	26107	28520	26507
40°	18947	27052	19374
45°	11892	24259	12129
50°	9063	15225	9237
55°	7957	8527	7957
60°	5830	6484	5830
65°	4809	5206	4809
70°	4016	4179	4016
75°	3394	3394	3394
80°	2851	2851	2851
85°	2519	2519	2519



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.8	5.0
10°-20°	179.5	14.6
20°-30°	279.3	22.6
30°-40°	319.2	25.9
40°-50°	213.5	17.3
50°-60°	102.2	8.3
60°-70°	49.8	4.0
70°-80°	22.4	1.8
80°-90°	5.8	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°	520.6	42.2
0°-40°	839.7	68.1
0°-60°	1155.4	93.7
0°-90°	1233.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1233.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	652	652	652	652	652	
5°	650	650	650	650	650	62
15°	633	633	633	636	637	179
25°	601	605	612	610	608	275
35°	497	525	543	532	504	295
45°	195	252	398	255	199	162
55°	106	114	114	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	652.4	652.4	652.4	652.4	652.4
2.5°	651.2	651.2	651.2	651.2	651.2
5°	649.9	649.9	649.9	649.9	649.9
7.5°	646.1	646.1	647.3	646.1	647.3
10°	642.2	642.2	642.2	643.5	643.5
12.5°	637.1	637.1	637.1	639.7	640.9
15°	633.3	633.3	633.3	635.8	637.1
17.5°	628.2	628.2	629.5	632.0	632.0
20°	621.8	623.1	624.3	626.9	626.9
22.5°	612.9	615.4	619.2	620.5	619.2
25°	601.4	605.2	611.6	610.3	607.7
27.5°	582.2	591.2	601.4	596.3	589.9
30°	558.0	572.0	587.3	577.1	569.4
32.5°	536.2	547.7	566.9	555.4	547.7
35°	496.7	524.8	542.6	532.4	504.3
37.5°	416.2	478.8	513.3	486.5	426.4
40°	337.1	403.5	481.3	408.6	344.7
42.5°	261.7	325.6	452.0	330.7	266.8
45°	195.3	251.5	398.4	255.4	199.2
47.5°	154.5	186.4	310.3	190.2	157.0
50°	135.3	148.1	227.3	150.7	137.9
52.5°	121.3	129.0	158.3	130.2	121.3
55°	106.0	113.6	113.6	114.9	106.0
57.5°	85.5	97.0	89.4	97.0	86.8
60°	67.7	76.6	75.3	76.6	67.7
62.5°	54.9	60.0	61.3	60.0	54.9
65°	47.2	48.5	51.1	48.5	47.2
67.5°	39.6	40.9	40.9	40.9	38.3
70°	31.9	33.2	33.2	33.2	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°	7.7	7.7	7.7	7.7	7.7
85°	5.1	5.1	5.1	5.1	5.1
87.5°	2.6	2.6	2.6	2.6	2.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)