

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: P253084

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253084
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
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE 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: 1288.3 lumens
Efficiency: N/A
Efficacy: 102.2 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

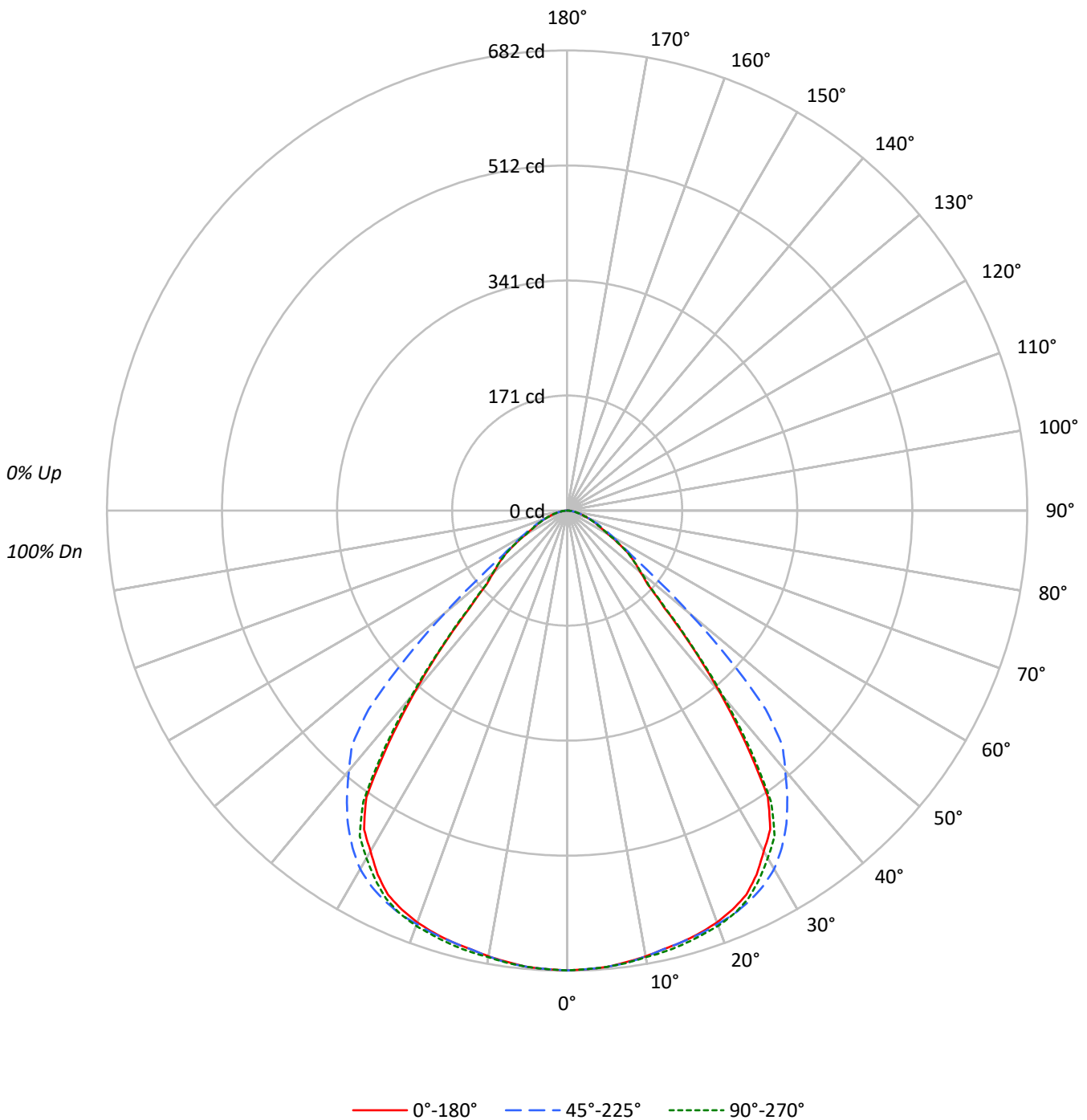
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	29342	29342	29342
5°	29342	29342	29342
10°	29327	29327	29388
15°	29486	29486	29664
20°	29759	29883	30002
25°	29844	30347	30157
30°	28975	30501	29571
35°	27269	29792	27689
40°	19790	28260	20239
45°	12428	25336	12671
50°	9471	15902	9646
55°	8310	8910	8310
60°	6088	6777	6088
65°	5023	5430	5023
70°	4192	4368	4192
75°	3543	3543	3543
80°	2975	2975	2975
85°	2618	2618	2618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.5	5.0
10°-20°	187.5	14.6
20°-30°	291.7	22.6
30°-40°	333.4	25.9
40°-50°	223.0	17.3
50°-60°	106.7	8.3
60°-70°	52.0	4.0
70°-80°	23.4	1.8
80°-90°	6.0	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°	543.8	42.2
0°-40°	877.1	68.1
0°-60°	1206.9	93.7
0°-90°	1288.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1288.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	682	682	682	682	682	
5°	679	679	679	679	679	65
15°	662	662	662	664	666	187
25°	628	632	639	638	635	288
35°	519	548	567	556	527	308
45°	204	263	416	267	208	169
55°	111	119	119	120	111	96
65°	49	51	53	51	49	49
75°	21	21	21	21	21	23
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°	681.5	681.5	681.5	681.5	681.5
2.5°	680.2	680.2	680.2	680.2	680.2
5°	678.9	678.9	678.9	678.9	678.9
7.5°	674.9	674.9	676.2	674.9	676.2
10°	670.8	670.8	670.8	672.2	672.2
12.5°	665.5	665.5	665.5	668.2	669.5
15°	661.5	661.5	661.5	664.2	665.5
17.5°	656.2	656.2	657.5	660.2	660.2
20°	649.5	650.8	652.2	654.8	654.8
22.5°	640.2	642.8	646.8	648.2	646.8
25°	628.2	632.2	638.8	637.5	634.8
27.5°	608.2	617.5	628.2	622.8	616.2
30°	582.8	597.5	613.5	602.8	594.8
32.5°	560.2	572.2	592.2	580.2	572.2
35°	518.8	548.1	566.8	556.2	526.8
37.5°	434.8	500.1	536.1	508.1	445.5
40°	352.1	421.4	502.8	426.8	360.1
42.5°	273.4	340.1	472.1	345.4	278.7
45°	204.1	262.7	416.1	266.7	208.1
47.5°	161.4	194.7	324.1	198.7	164.0
50°	141.4	154.7	237.4	157.4	144.0
52.5°	126.7	134.7	165.4	136.0	126.7
55°	110.7	118.7	118.7	120.0	110.7
57.5°	89.4	101.4	93.4	101.4	90.7
60°	70.7	80.0	78.7	80.0	70.7
62.5°	57.3	62.7	64.0	62.7	57.3
65°	49.3	50.7	53.3	50.7	49.3
67.5°	41.3	42.7	42.7	42.7	40.0
70°	33.3	34.7	34.7	34.7	33.3
72.5°	26.7	28.0	28.0	28.0	26.7
75°	21.3	21.3	21.3	21.3	21.3
77.5°	16.0	17.3	16.0	17.3	16.0
80°	12.0	12.0	12.0	12.0	12.0
82.5°	8.0	8.0	8.0	8.0	8.0
85°	5.3	5.3	5.3	5.3	5.3
87.5°	2.7	2.7	2.7	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)