

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: P253059

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253059
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-S6M12-61SWDC-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1286.2 lumens
Efficiency: N/A
Efficacy: 102.1 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

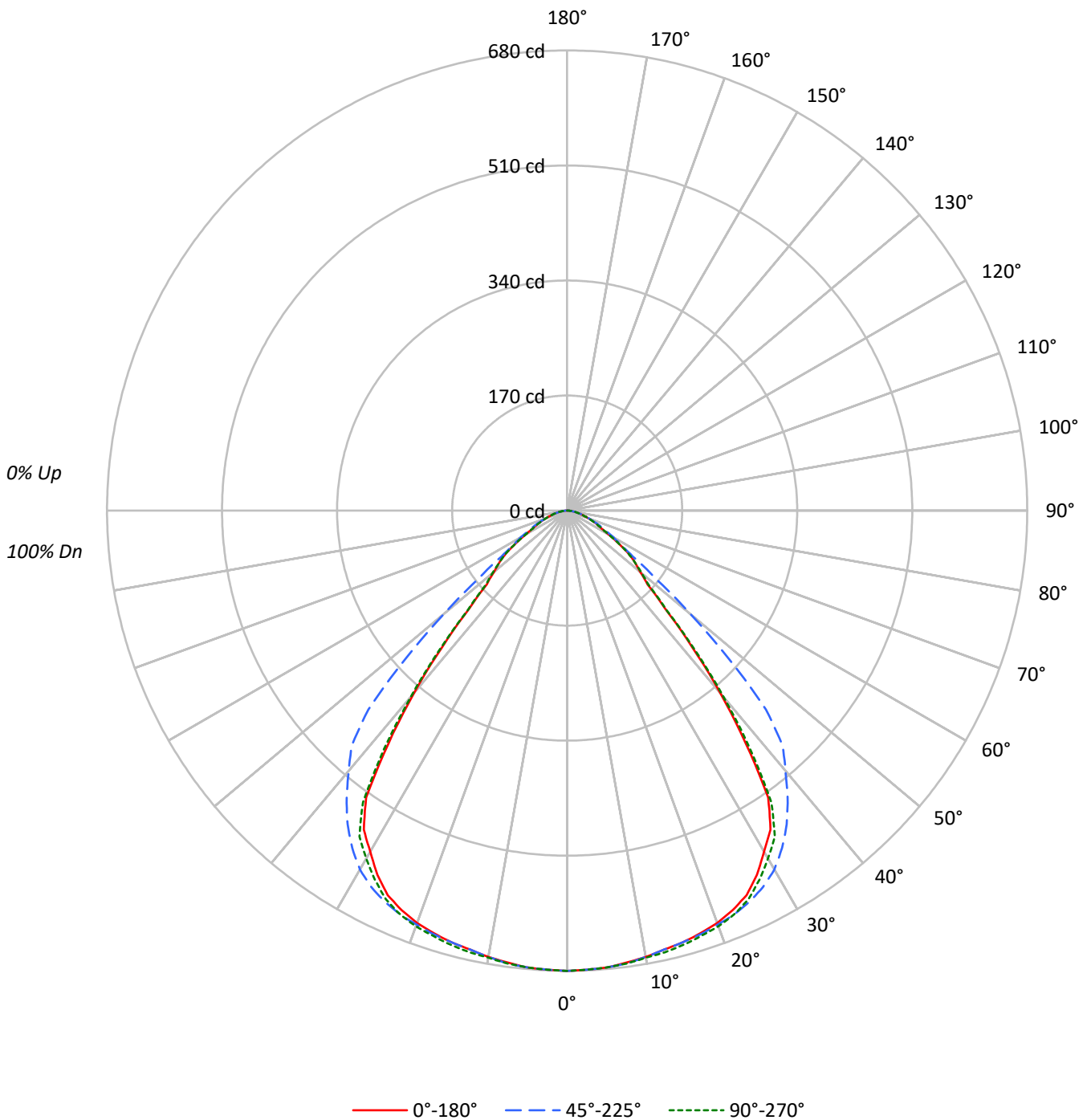
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	29291	29291	29291
5°	29290	29290	29290
10°	29279	29279	29336
15°	29437	29437	29615
20°	29709	29828	29952
25°	29791	30295	30105
30°	28925	30446	29522
35°	27221	29739	27642
40°	19756	28209	20206
45°	12403	25294	12647
50°	9451	15875	9632
55°	8295	8895	8295
60°	6079	6768	6079
65°	5023	5430	5023
70°	4192	4356	4192
75°	3543	3543	3543
80°	2975	2975	2975
85°	2618	2618	2618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.4	5.0
10°-20°	187.2	14.6
20°-30°	291.2	22.6
30°-40°	332.8	25.9
40°-50°	222.6	17.3
50°-60°	106.6	8.3
60°-70°	51.9	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°	542.8	42.2
0°-40°	875.6	68.1
0°-60°	1204.8	93.7
0°-90°	1286.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1286.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	680	680	680	680	680	
5°	678	678	678	678	678	64
15°	660	660	660	663	664	187
25°	627	631	638	636	634	287
35°	518	547	566	555	526	308
45°	204	262	415	266	208	169
55°	110	118	118	120	110	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°	680.3	680.3	680.3	680.3	680.3
2.5°	679.0	679.0	679.0	679.0	679.0
5°	677.7	677.7	677.7	677.7	677.7
7.5°	673.7	673.7	675.0	673.7	675.0
10°	669.7	669.7	669.7	671.0	671.0
12.5°	664.4	664.4	664.4	667.0	668.4
15°	660.4	660.4	660.4	663.0	664.4
17.5°	655.0	655.0	656.4	659.0	659.0
20°	648.4	649.7	651.0	653.7	653.7
22.5°	639.1	641.7	645.7	647.1	645.7
25°	627.1	631.1	637.7	636.4	633.7
27.5°	607.1	616.4	627.1	621.8	615.1
30°	581.8	596.5	612.4	601.8	593.8
32.5°	559.2	571.2	591.1	579.2	571.2
35°	517.9	547.2	565.8	555.2	525.9
37.5°	434.0	499.3	535.2	507.3	444.7
40°	351.5	420.7	501.9	426.0	359.5
42.5°	272.9	339.5	471.3	344.8	278.3
45°	203.7	262.3	415.4	266.3	207.7
47.5°	161.1	194.4	323.5	198.4	163.8
50°	141.1	154.4	237.0	157.1	143.8
52.5°	126.5	134.5	165.1	135.8	126.5
55°	110.5	118.5	118.5	119.8	110.5
57.5°	89.2	101.2	93.2	101.2	90.5
60°	70.6	79.9	78.6	79.9	70.6
62.5°	57.2	62.6	63.9	62.6	57.2
65°	49.3	50.6	53.3	50.6	49.3
67.5°	41.3	42.6	42.6	42.6	39.9
70°	33.3	34.6	34.6	34.6	33.3
72.5°	26.6	28.0	28.0	28.0	26.6
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)