

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: P253099

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253099
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-S6M12-61SWDMB
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 901.2 lumens
Efficiency: N/A
Efficacy: 71.5 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

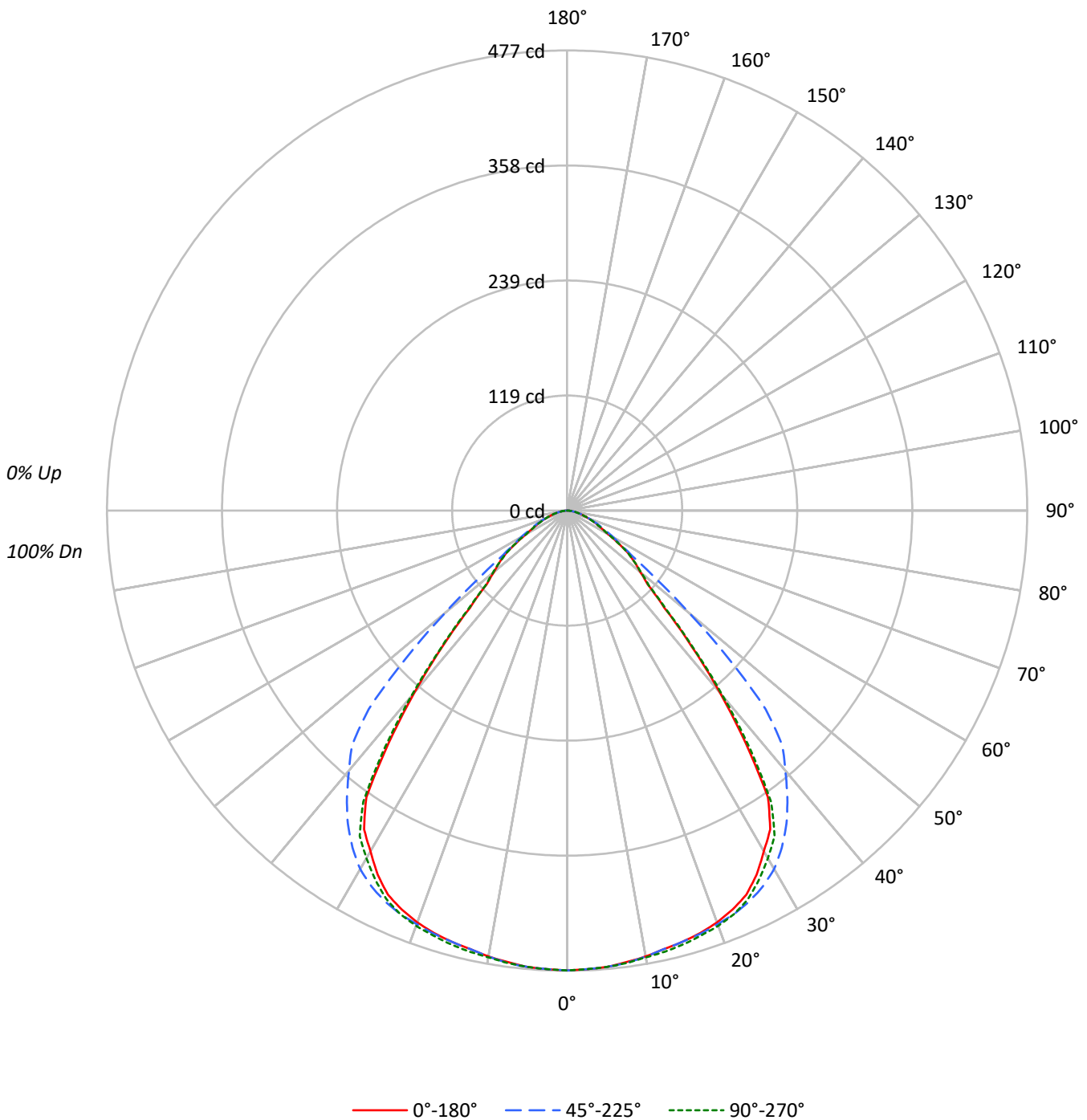
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	20525	20525	20525
5°	20525	20525	20525
10°	20518	20518	20557
15°	20625	20625	20749
20°	20816	20903	20990
25°	20874	21231	21098
30°	20269	21333	20687
35°	19074	20841	19369
40°	13843	19767	14158
45°	8689	17725	8859
50°	6625	11126	6752
55°	5810	6230	5810
60°	4254	4736	4254
65°	3515	3800	3515
70°	2933	3059	2933
75°	2479	2479	2479
80°	2083	2083	2083
85°	1828	1828	1828



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.2	5.0
10°-20°	131.1	14.6
20°-30°	204.1	22.6
30°-40°	233.2	25.9
40°-50°	156.0	17.3
50°-60°	74.7	8.3
60°-70°	36.4	4.0
70°-80°	16.4	1.8
80°-90°	4.2	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°	380.4	42.2
0°-40°	613.6	68.1
0°-60°	844.2	93.7
0°-90°	901.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	901.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	477	477	477	477	477	
5°	475	475	475	475	475	45
15°	463	463	463	465	466	131
25°	439	442	447	446	444	201
35°	363	383	396	389	368	216
45°	143	184	291	187	146	118
55°	77	83	83	84	77	67
65°	34	36	37	36	34	35
75°	15	15	15	15	15	16
85°	4	4	4	4	4	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	476.7	476.7	476.7	476.7	476.7
2.5°	475.8	475.8	475.8	475.8	475.8
5°	474.9	474.9	474.9	474.9	474.9
7.5°	472.1	472.1	473.0	472.1	473.0
10°	469.3	469.3	469.3	470.2	470.2
12.5°	465.5	465.5	465.5	467.4	468.3
15°	462.7	462.7	462.7	464.6	465.5
17.5°	459.0	459.0	459.9	461.8	461.8
20°	454.3	455.3	456.2	458.1	458.1
22.5°	447.8	449.7	452.5	453.4	452.5
25°	439.4	442.2	446.9	445.9	444.1
27.5°	425.4	431.9	439.4	435.7	431.0
30°	407.7	418.0	429.1	421.7	416.1
32.5°	391.8	400.2	414.2	405.8	400.2
35°	362.9	383.4	396.5	389.0	368.5
37.5°	304.1	349.8	375.0	355.4	311.6
40°	246.3	294.8	351.7	298.5	251.9
42.5°	191.2	237.9	330.3	241.6	195.0
45°	142.7	183.8	291.1	186.6	145.5
47.5°	112.9	136.2	226.7	139.0	114.7
50°	98.9	108.2	166.1	110.1	100.8
52.5°	88.6	94.2	115.7	95.2	88.6
55°	77.4	83.0	83.0	84.0	77.4
57.5°	62.5	70.9	65.3	70.9	63.4
60°	49.4	56.0	55.0	56.0	49.4
62.5°	40.1	43.8	44.8	43.8	40.1
65°	34.5	35.5	37.3	35.5	34.5
67.5°	28.9	29.9	29.9	29.9	28.0
70°	23.3	24.3	24.3	24.3	23.3
72.5°	18.7	19.6	19.6	19.6	18.7
75°	14.9	14.9	14.9	14.9	14.9
77.5°	11.2	12.1	11.2	12.1	11.2
80°	8.4	8.4	8.4	8.4	8.4
82.5°	5.6	5.6	5.6	5.6	5.6
85°	3.7	3.7	3.7	3.7	3.7
87.5°	1.9	1.9	1.9	1.9	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)