

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: P253104

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253104
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-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 896.1 lumens
Efficiency: N/A
Efficacy: 71.1 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

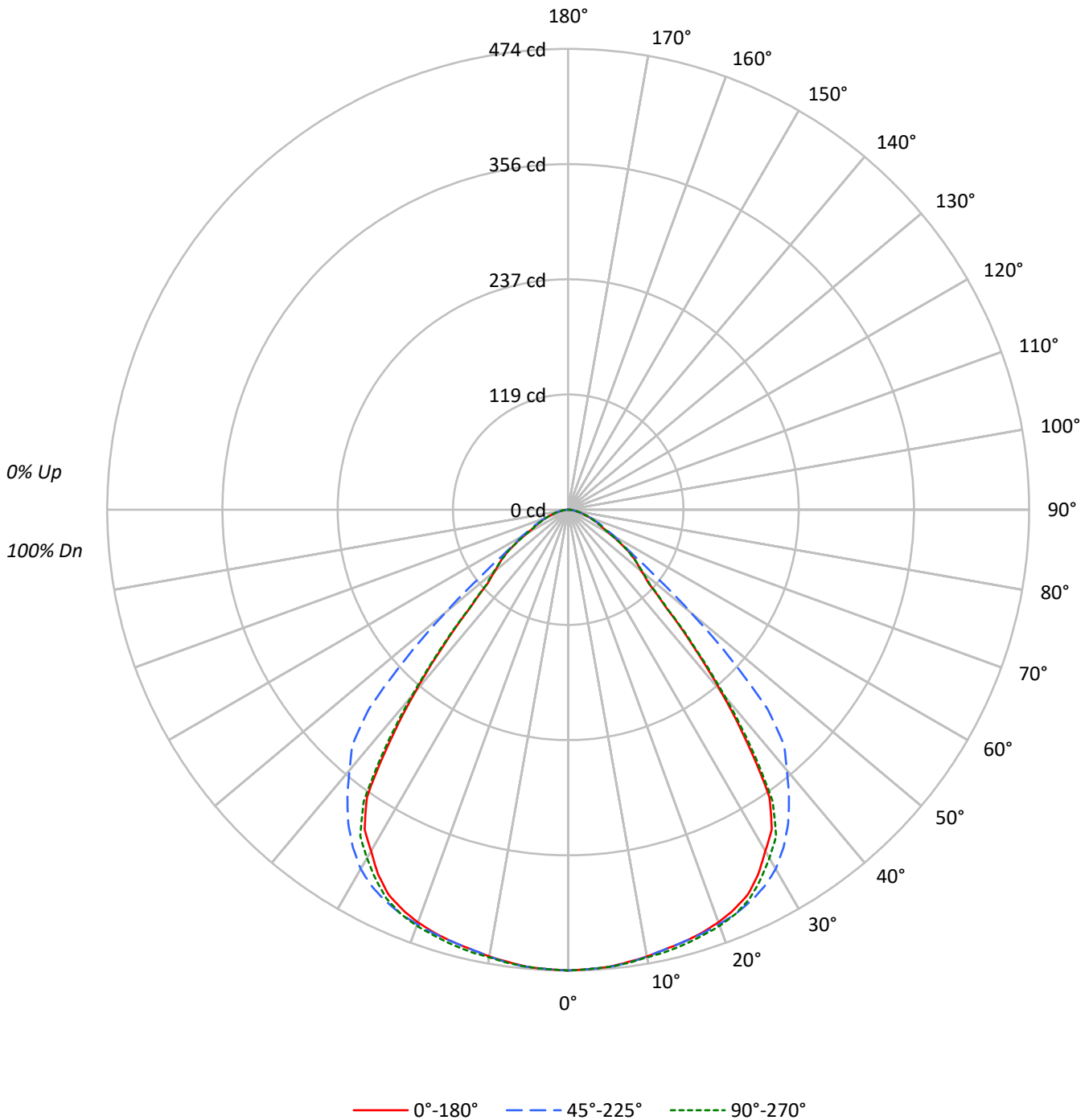
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	20408	20408	20408
5°	20409	20409	20409
10°	20400	20400	20439
15°	20509	20509	20634
20°	20696	20783	20870
25°	20756	21107	20974
30°	20155	21214	20568
35°	18964	20720	19258
40°	13765	19655	14079
45°	8640	17622	8811
50°	6584	11059	6712
55°	5780	6200	5780
60°	4237	4710	4237
65°	3494	3780	3494
70°	2921	3034	2921
75°	2462	2462	2462
80°	2058	2058	2058
85°	1828	1828	1828



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.9	5.0
10°-20°	130.4	14.6
20°-30°	202.9	22.6
30°-40°	231.9	25.9
40°-50°	155.1	17.3
50°-60°	74.2	8.3
60°-70°	36.2	4.0
70°-80°	16.3	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°	378.2	42.2
0°-40°	610.1	68.1
0°-60°	839.4	93.7
0°-90°	896.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	896.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	474	474	474	474	474	
5°	472	472	472	472	472	45
15°	460	460	460	462	463	130
25°	437	440	444	443	442	200
35°	361	381	394	387	366	214
45°	142	183	289	186	145	118
55°	77	83	83	84	77	67
65°	34	35	37	35	34	34
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°	474.0	474.0	474.0	474.0	474.0
2.5°	473.1	473.1	473.1	473.1	473.1
5°	472.2	472.2	472.2	472.2	472.2
7.5°	469.4	469.4	470.3	469.4	470.3
10°	466.6	466.6	466.6	467.5	467.5
12.5°	462.9	462.9	462.9	464.7	465.7
15°	460.1	460.1	460.1	462.0	462.9
17.5°	456.4	456.4	457.3	459.2	459.2
20°	451.7	452.7	453.6	455.5	455.5
22.5°	445.3	447.1	449.9	450.8	449.9
25°	436.9	439.7	444.3	443.4	441.5
27.5°	423.0	429.5	436.9	433.2	428.6
30°	405.4	415.6	426.7	419.3	413.7
32.5°	389.6	397.9	411.9	403.5	397.9
35°	360.8	381.3	394.2	386.8	366.4
37.5°	302.4	347.9	372.9	353.4	309.8
40°	244.9	293.1	349.7	296.8	250.5
42.5°	190.2	236.5	328.4	240.3	193.9
45°	141.9	182.7	289.4	185.5	144.7
47.5°	112.2	135.4	225.4	138.2	114.1
50°	98.3	107.6	165.1	109.5	100.2
52.5°	88.1	93.7	115.0	94.6	88.1
55°	77.0	82.6	82.6	83.5	77.0
57.5°	62.2	70.5	64.9	70.5	63.1
60°	49.2	55.7	54.7	55.7	49.2
62.5°	39.9	43.6	44.5	43.6	39.9
65°	34.3	35.2	37.1	35.2	34.3
67.5°	28.8	29.7	29.7	29.7	27.8
70°	23.2	24.1	24.1	24.1	23.2
72.5°	18.6	19.5	19.5	19.5	18.6
75°	14.8	14.8	14.8	14.8	14.8
77.5°	11.1	12.1	11.1	12.1	11.1
80°	8.3	8.3	8.3	8.3	8.3
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)