

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

Report Number: P328538

Luminaire Tested: **L815SML10WW927MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P328538
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-290-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L815SML10WW927MB
Description: Small, 1000lm, WW, 2700K, black finish
Light Source: (1) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 941.0 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Spacing Criteria (0/90/45): 0.65 / 0.85 / 0.82
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

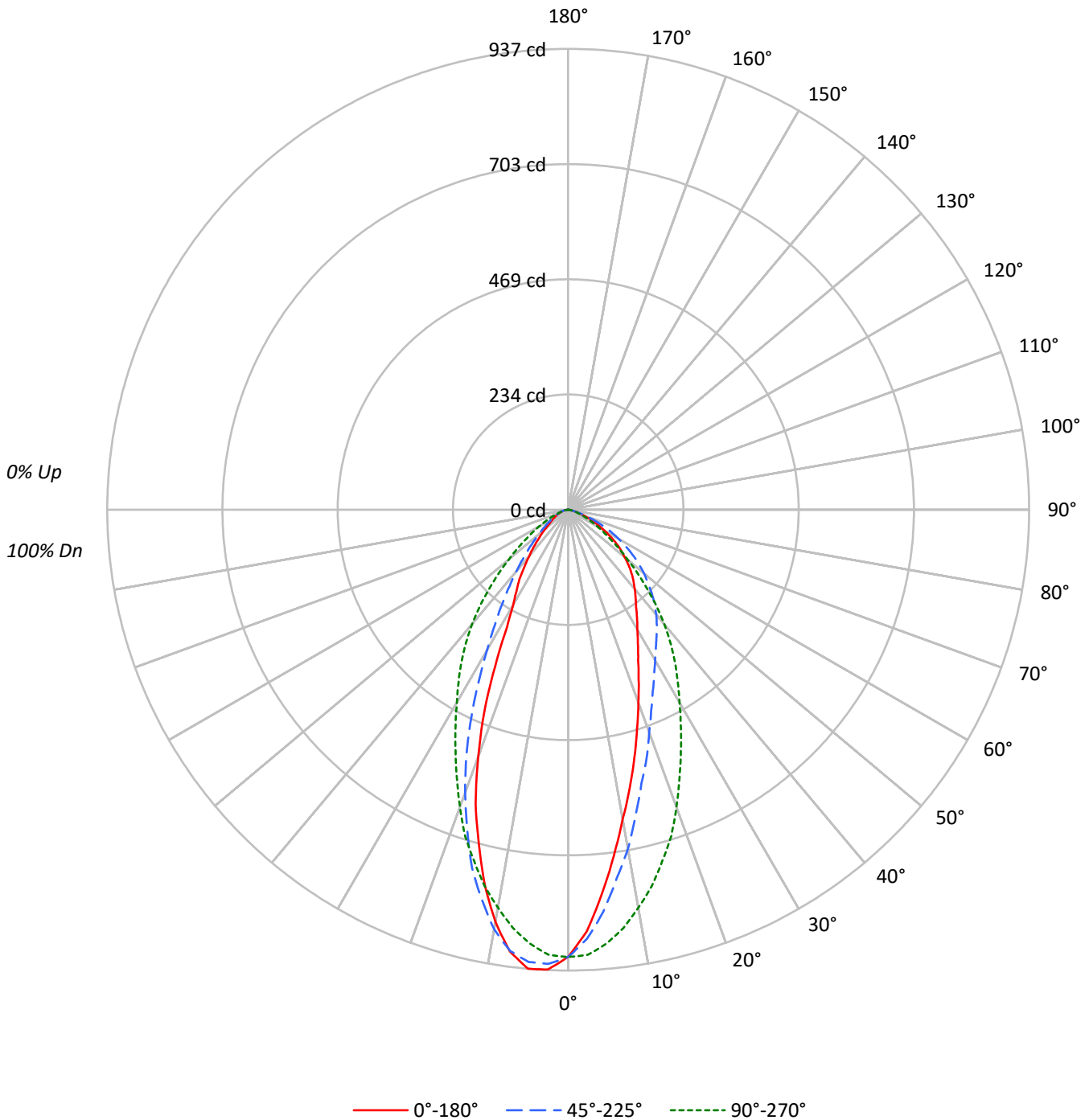
Input Watts (W): 12.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80					80			
3	97	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	74	72					72			
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59					59			
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49					49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45					45			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42					42			
10	64	52	46	41	63	52	45	41	51	45	41	50	45	41	49	44	41	39					39			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	199436	199436	199436
5°	172749	195047	206251
10°	142193	182963	189531
15°	118162	167810	159433
20°	97355	150116	124587
25°	81464	131137	84876
30°	71150	114473	56566
35°	64460	101268	46150
40°	60284	86992	35323
45°	56378	70085	27259
50°	51239	53764	20810
55°	45647	40257	16401
60°	37365	29998	14429
65°	28537	21948	12868
70°	20196	14618	11605
75°	12539	9658	10760
80°	4293	6819	9345
85°	0	1761	6793



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.5	8.5
10°-20°	186.6	19.8
20°-30°	202.9	21.6
30°-40°	177.1	18.8
40°-50°	138.2	14.7
50°-60°	90.5	9.6
60°-70°	47.7	5.1
70°-80°	15.6	1.7
80°-90°	2.1	0.2
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°	469.9	49.9
0°-40°	647.0	68.8
0°-60°	875.7	93.1
0°-90°	941.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	941.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	910	910	910	910	910	
5°	785	820	886	923	937	70
15°	520	576	739	755	702	145
25°	337	407	542	466	351	156
35°	241	313	378	233	172	152
45°	182	240	226	114	88	140
55°	119	160	105	55	43	106
65°	55	78	42	28	25	56
75°	15	14	11	14	13	17
85°	0	0	1	3	3	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	909.5	909.5	909.5	909.5	909.5	909.5	909.5	909.5	909.5
2.5°	858.6	865.3	873.3	890.1	906.2	916.2	924.3	931.0	935.7
5°	784.8	804.2	820.3	852.5	886.1	910.2	923.0	931.0	937.0
7.5°	709.7	723.7	755.9	809.6	857.9	890.1	904.8	909.5	906.2
10°	638.6	654.7	699.6	758.6	821.7	856.5	866.6	861.2	851.2
12.5°	578.2	593.6	634.5	711.7	784.1	819.7	811.6	791.5	782.8
15°	520.5	531.9	575.5	661.4	739.2	766.7	754.6	721.1	702.3
17.5°	465.5	477.6	529.9	614.4	696.2	714.4	682.2	641.2	625.8
20°	417.2	432.0	481.6	570.1	643.3	654.0	612.4	567.5	533.9
22.5°	374.3	389.7	440.7	527.9	590.9	588.9	540.0	483.6	446.7
25°	336.7	354.2	407.1	489.6	542.0	528.6	466.2	395.7	350.8
27.5°	306.5	324.0	378.3	456.1	495.7	470.2	393.7	309.9	269.0
30°	281.0	298.5	353.5	427.3	452.1	412.5	330.0	250.9	223.4
32.5°	260.3	275.0	331.4	404.5	414.5	360.2	277.0	207.9	195.2
35°	240.8	256.9	313.2	382.3	378.3	311.9	233.4	177.1	172.4
37.5°	224.7	240.8	295.8	358.2	341.4	267.0	195.9	151.6	145.6
40°	210.6	226.0	278.4	328.7	303.9	224.7	165.0	130.1	123.4
42.5°	196.5	211.3	259.6	300.5	264.9	187.1	136.8	110.7	104.6
45°	181.8	195.9	240.1	267.0	226.0	154.3	114.0	94.6	87.9
47.5°	166.3	181.8	219.3	236.1	191.2	125.4	94.6	80.5	73.1
50°	150.2	165.0	201.2	207.3	157.6	102.0	78.5	66.4	61.0
52.5°	134.8	148.2	180.4	179.1	131.5	83.2	65.7	57.0	50.3
55°	119.4	130.8	160.3	152.9	105.3	67.7	55.0	48.3	42.9
57.5°	101.3	114.0	138.8	131.5	85.2	55.0	45.6	40.9	38.2
60°	85.2	95.9	118.1	109.3	68.4	44.9	38.2	34.9	32.9
62.5°	71.1	80.5	98.6	89.2	53.7	37.6	32.9	30.9	29.5
65°	55.0	65.1	78.5	69.8	42.3	30.2	28.2	26.8	24.8
67.5°	42.3	51.0	59.7	51.0	30.9	25.5	24.1	22.8	21.5
70°	31.5	38.2	42.3	34.2	22.8	20.8	20.8	19.5	18.1
72.5°	22.8	26.8	26.2	20.1	16.1	16.8	17.4	16.8	15.4
75°	14.8	15.4	14.1	11.4	11.4	13.4	14.1	13.4	12.7
77.5°	8.7	8.0	7.4	6.7	8.0	10.1	11.4	10.7	10.1
80°	3.4	4.0	4.0	4.0	5.4	7.4	8.7	8.0	7.4
82.5°	1.3	1.3	1.3	2.0	3.4	4.7	6.0	5.4	5.4
85°	0.0	0.0	0.0	0.0	0.7	2.0	2.7	2.7	2.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)