

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: P328541

Luminaire Tested: **L815SML10WW940MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P328541
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: L815SML10WW940MB
Description: Small, 1000lm, WW, 4000K, black finish
Light Source: (1) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

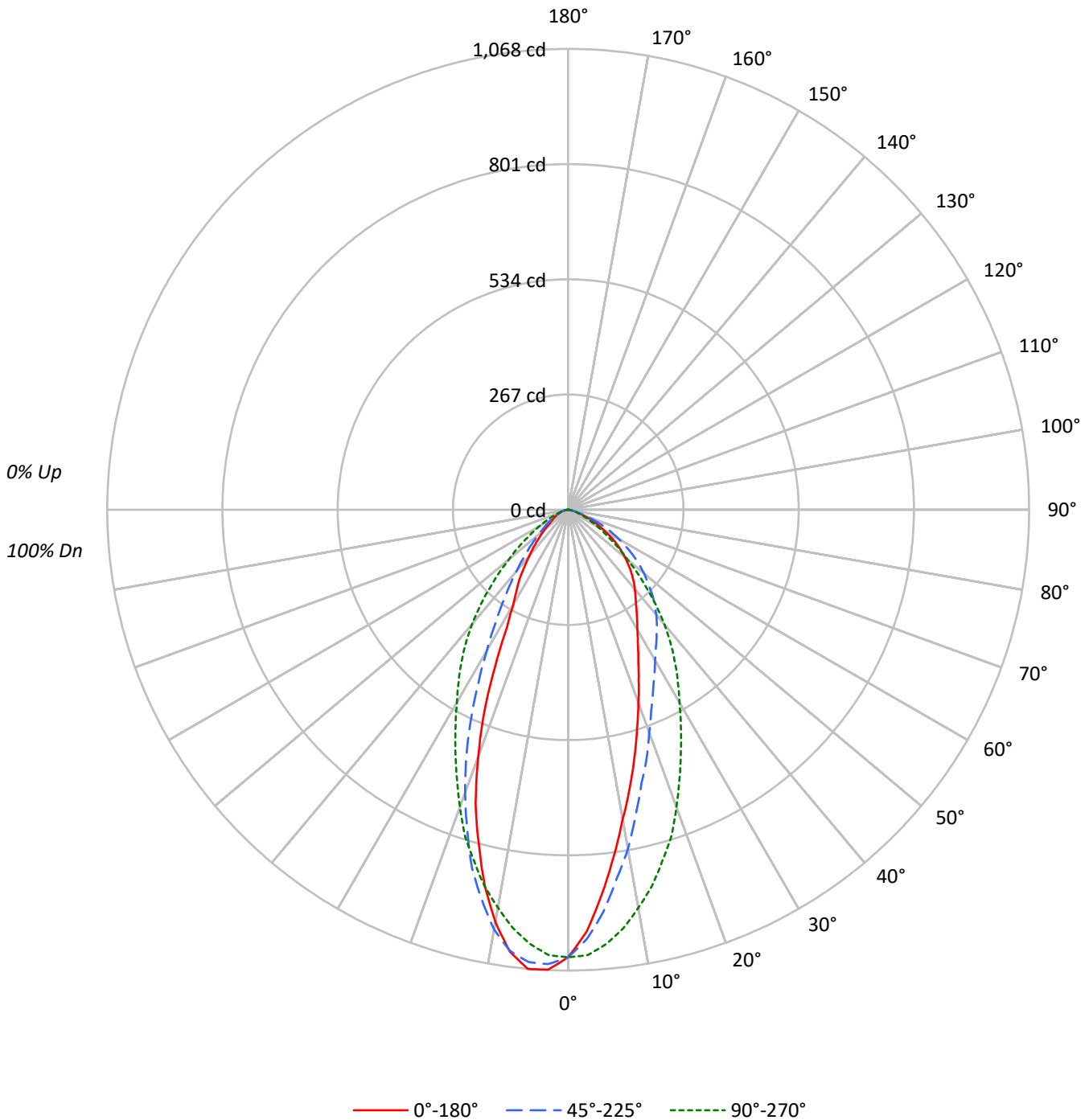
Lumens per Lamp: N/A
Luminaire Lumens: 1073.0 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Spacing Criteria (0/90/45): 0.65 / 0.85 / 0.82
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	227416	227416	227416
5°	196984	222408	235196
10°	162121	208613	216117
15°	134734	191352	181794
20°	111006	171165	142066
25°	92909	149525	96780
30°	81152	130526	64491
35°	73508	115482	52628
40°	68757	99186	40275
45°	64286	79946	31073
50°	58437	61303	23743
55°	52032	45915	18695
60°	42584	34208	16446
65°	32533	25009	14684
70°	23017	16669	13271
75°	14234	11014	12285
80°	4799	7703	10607
85°	0	2013	7799



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.7	8.5
10°-20°	212.8	19.8
20°-30°	231.3	21.6
30°-40°	201.9	18.8
40°-50°	157.6	14.7
50°-60°	103.1	9.6
60°-70°	54.4	5.1
70°-80°	17.7	1.7
80°-90°	2.4	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°	535.9	49.9
0°-40°	737.8	68.8
0°-60°	998.5	93.1
0°-90°	1073.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1073.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1037	1037	1037	1037	1037	
5°	895	935	1010	1052	1068	80
15°	594	656	843	860	801	165
25°	384	464	618	532	400	178
35°	275	357	431	266	197	173
45°	207	274	258	130	100	159
55°	136	183	120	63	49	120
65°	63	90	48	32	28	64
75°	17	16	13	16	14	19
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°	1037.1	1037.1	1037.1	1037.1	1037.1	1037.1	1037.1	1037.1	1037.1
2.5°	979.0	986.6	995.8	1014.9	1033.3	1044.8	1054.0	1061.6	1067.0
5°	894.9	917.0	935.4	972.1	1010.4	1037.9	1052.4	1061.6	1068.5
7.5°	809.2	825.3	862.0	923.2	978.2	1014.9	1031.8	1037.1	1033.3
10°	728.1	746.5	797.7	865.0	936.9	976.7	988.2	982.1	970.6
12.5°	659.3	676.9	723.5	811.5	894.1	934.6	925.5	902.5	892.6
15°	593.5	606.5	656.2	754.1	842.9	874.2	860.4	822.2	800.8
17.5°	530.8	544.6	604.2	700.6	793.9	814.6	777.8	731.2	713.6
20°	475.7	492.6	549.2	650.1	733.5	745.7	698.3	647.1	608.8
22.5°	426.8	444.4	502.5	601.9	673.8	671.5	615.7	551.5	509.4
25°	384.0	403.8	464.3	558.3	618.0	602.7	531.6	451.3	400.0
27.5°	349.5	369.4	431.4	520.1	565.2	536.2	449.0	353.4	306.7
30°	320.5	340.4	403.1	487.2	515.5	470.4	376.3	286.1	254.7
32.5°	296.8	313.6	377.8	461.2	472.7	410.7	315.9	237.1	222.6
35°	274.6	292.9	357.2	436.0	431.4	355.7	266.2	201.9	196.6
37.5°	256.2	274.6	337.3	408.4	389.3	304.4	223.3	172.9	166.0
40°	240.2	257.8	317.4	374.8	346.5	256.2	188.2	148.4	140.7
42.5°	224.1	240.9	296.0	342.6	302.1	213.4	156.0	126.2	119.3
45°	207.3	223.3	273.8	304.4	257.8	175.9	130.0	107.8	100.2
47.5°	189.7	207.3	250.1	269.2	218.0	143.0	107.8	91.8	83.4
50°	171.3	188.2	229.5	236.3	179.7	116.3	89.5	75.7	69.6
52.5°	153.7	169.0	205.7	204.2	149.9	94.8	75.0	65.0	57.4
55°	136.1	149.1	182.8	174.4	120.1	77.2	62.7	55.1	48.9
57.5°	115.5	130.0	158.3	149.9	97.1	62.7	52.0	46.7	43.6
60°	97.1	109.4	134.6	124.7	78.0	51.2	43.6	39.8	37.5
62.5°	81.1	91.8	112.4	101.7	61.2	42.8	37.5	35.2	33.7
65°	62.7	74.2	89.5	79.5	48.2	34.4	32.1	30.6	28.3
67.5°	48.2	58.1	68.1	58.1	35.2	29.1	27.5	26.0	24.5
70°	35.9	43.6	48.2	39.0	26.0	23.7	23.7	22.2	20.7
72.5°	26.0	30.6	29.8	22.9	18.4	19.1	19.9	19.1	17.6
75°	16.8	17.6	16.1	13.0	13.0	15.3	16.1	15.3	14.5
77.5°	9.9	9.2	8.4	7.6	9.2	11.5	13.0	12.2	11.5
80°	3.8	4.6	4.6	4.6	6.1	8.4	9.9	9.2	8.4
82.5°	1.5	1.5	1.5	2.3	3.8	5.4	6.9	6.1	6.1
85°	0.0	0.0	0.0	0.0	0.8	2.3	3.1	3.1	3.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)