

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: P328670

Luminaire Tested: **L815SQ20WF927MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P328670
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-290-20)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L815SQ20WF927MB
Description: Square Track 13x1, 2000lm, 60°, 2700K, black finish
Light Source: (13) 2700K CCT, 92 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1948.0 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.86
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

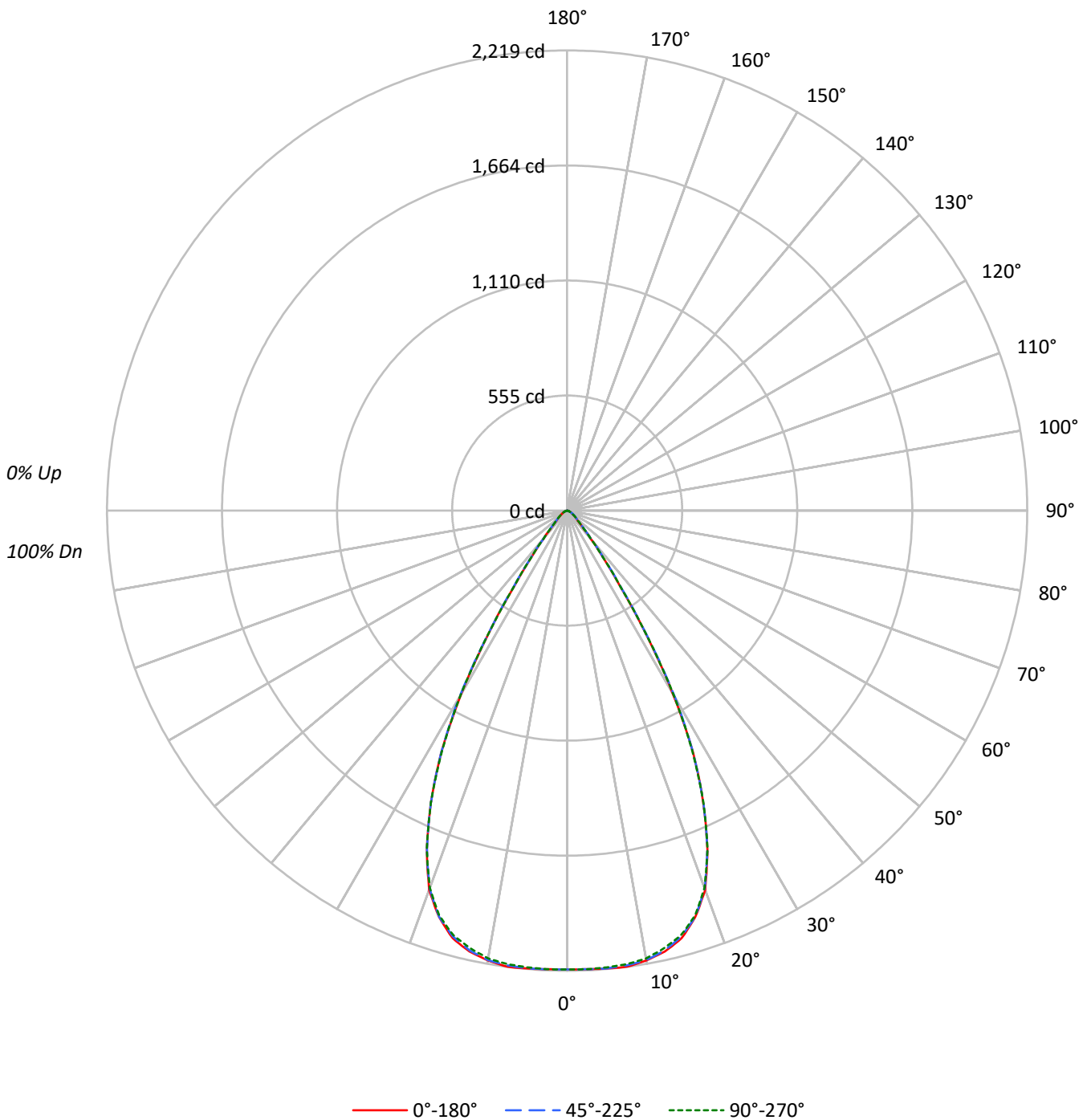
Input Watts (W): 26.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P328670

CATALOG NUMBER: L815SQ20WF927MB

Luminous Intensity Polar Plot





TEST NUMBER: P328670

CATALOG NUMBER: L815SQ20WF927MB

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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	114	111	108	106	111	109	106	105	105	103	101	101	100	98	98	96	95	94				94
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87				87
3	103	96	92	88	101	95	91	87	92	89	86	90	87	84	88	85	83	81				81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	78	76				76
5	93	85	79	75	91	84	79	75	82	77	74	80	76	73	79	75	73	71				71
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67				67
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63				63
8	80	71	65	61	79	71	65	61	69	64	61	68	64	61	68	63	60	59				59
9	77	67	62	58	76	67	61	58	66	61	57	65	60	57	64	60	57	56				56
10	73	64	58	54	72	63	58	54	63	58	54	62	57	54	61	57	54	53				53

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	214356	214356	214356
5°	215564	215467	214981
10°	216679	216483	215696
15°	214095	213293	212591
20°	200587	199866	199556
25°	166086	166300	166193
30°	114200	116661	115207
35°	51906	53443	52497
40°	22637	23143	22257
45°	11234	12467	11782
50°	8138	8591	8289
55°	6418	6756	6418
60°	5038	5425	5231
65°	4126	3897	4126
70°	2832	2832	2832
75°	1497	1497	1497
80°	0	558	0
85°	0	0	0



TEST NUMBER: P328670

CATALOG NUMBER: L815SQ20WF927MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.0	10.8
10°-20°	593.4	30.5
20°-30°	697.4	35.8
30°-40°	313.0	16.1
40°-50°	75.4	3.9
50°-60°	35.4	1.8
60°-70°	17.6	0.9
70°-80°	4.8	0.2
80°-90°	0.0	0.0
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°	1501.8	77.1
0°-40°	1814.8	93.2
0°-60°	1925.6	98.8
0°-90°	1948.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1948.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2213	2213	2213	2213	2213	
5°	2217	2217	2216	2215	2211	211
15°	2135	2127	2127	2124	2120	595
25°	1554	1559	1556	1553	1555	696
35°	439	451	452	442	444	308
45°	82	89	91	89	86	73
55°	38	39	40	39	38	35
65°	18	18	17	18	18	18
75°	4	4	4	4	4	5
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P328670

CATALOG NUMBER: L815SQ20WF927MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2212.7	2212.7	2212.7	2212.7	2212.7
2.5°	2213.7	2213.7	2213.7	2217.7	2213.7
5°	2216.7	2216.7	2215.7	2214.7	2210.7
7.5°	2218.7	2216.7	2211.7	2209.7	2205.7
10°	2202.7	2200.7	2200.7	2197.7	2192.7
12.5°	2177.7	2172.7	2172.7	2171.7	2161.7
15°	2134.7	2126.7	2126.7	2123.7	2119.7
17.5°	2055.7	2060.7	2053.7	2056.7	2048.7
20°	1945.7	1945.7	1938.7	1940.7	1935.7
22.5°	1767.8	1773.8	1766.8	1768.8	1768.8
25°	1553.8	1558.8	1555.8	1552.8	1554.8
27.5°	1316.8	1319.8	1315.8	1318.8	1308.8
30°	1020.9	1043.9	1042.9	1045.9	1029.9
32.5°	713.9	731.9	719.9	723.9	715.9
35°	438.9	450.9	451.9	441.9	443.9
37.5°	275.0	280.0	287.0	281.0	284.0
40°	179.0	178.0	183.0	182.0	176.0
42.5°	119.0	122.0	125.0	124.0	121.0
45°	82.0	89.0	91.0	89.0	86.0
47.5°	64.0	67.0	70.0	68.0	65.0
50°	54.0	55.0	57.0	55.0	55.0
52.5°	46.0	46.0	48.0	47.0	47.0
55°	38.0	39.0	40.0	39.0	38.0
57.5°	31.0	31.0	34.0	32.0	31.0
60°	26.0	26.0	28.0	26.0	27.0
62.5°	22.0	22.0	22.0	22.0	22.0
65°	18.0	18.0	17.0	18.0	18.0
67.5°	13.0	13.0	13.0	14.0	14.0
70°	10.0	10.0	10.0	10.0	10.0
72.5°	7.0	7.0	7.0	7.0	7.0
75°	4.0	4.0	4.0	4.0	4.0
77.5°	2.0	2.0	2.0	2.0	2.0
80°	0.0	0.0	1.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)