

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: P328673

Luminaire Tested: **L815SQ20WF940MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P328673
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: L815SQ20WF940MB
Description: Square Track 13x1, 2000lm, 60°, 4000K, black finish
Light Source: (13) 4000K CCT, 92 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1987.0 lumens
Efficiency: N/A
Efficacy: 74.4 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

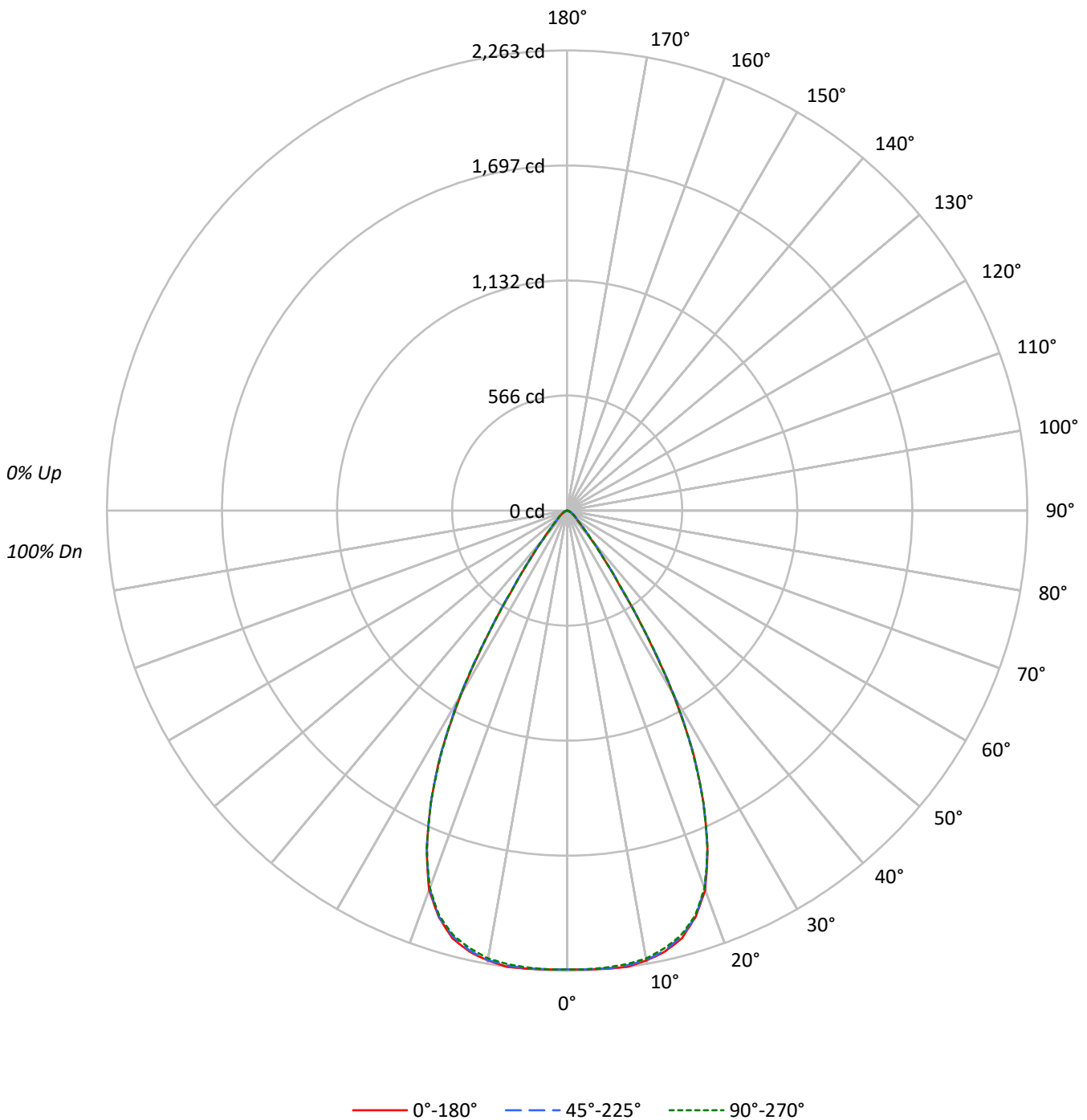
Input Watts (W): 26.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	218648	218648	218648
5°	219882	219785	219289
10°	221017	220821	220014
15°	218388	217565	216853
20°	204608	203876	203556
25°	169410	169624	169517
30°	116482	118988	117511
35°	52946	54519	53550
40°	23092	23598	22700
45°	11453	12714	12015
50°	8304	8756	8455
55°	6553	6891	6553
60°	5134	5541	5328
65°	4218	3966	4218
70°	2889	2889	2889
75°	1535	1535	1535
80°	0	558	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.2	10.8
10°-20°	605.3	30.5
20°-30°	711.3	35.8
30°-40°	319.3	16.1
40°-50°	76.9	3.9
50°-60°	36.1	1.8
60°-70°	18.0	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°	1531.9	77.1
0°-40°	1851.1	93.2
0°-60°	1964.1	98.9
0°-90°	1987.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1987.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2257	2257	2257	2257	2257	
5°	2261	2261	2260	2259	2255	216
15°	2178	2169	2169	2166	2162	607
25°	1585	1590	1587	1584	1586	710
35°	448	460	461	451	453	314
45°	84	91	93	91	88	74
55°	39	40	41	40	39	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2257.0	2257.0	2257.0	2257.0	2257.0
2.5°	2258.0	2258.0	2258.0	2262.1	2258.0
5°	2261.1	2261.1	2260.1	2259.0	2255.0
7.5°	2263.1	2261.1	2256.0	2253.9	2249.9
10°	2246.8	2244.8	2244.8	2241.7	2236.6
12.5°	2221.3	2216.2	2216.2	2215.2	2205.0
15°	2177.5	2169.3	2169.3	2166.2	2162.2
17.5°	2096.9	2102.0	2094.8	2097.9	2089.7
20°	1984.7	1984.7	1977.6	1979.6	1974.5
22.5°	1803.2	1809.3	1802.1	1804.2	1804.2
25°	1584.9	1590.0	1586.9	1583.9	1585.9
27.5°	1343.2	1346.2	1342.2	1345.2	1335.0
30°	1041.3	1064.8	1063.7	1066.8	1050.5
32.5°	728.2	746.6	734.3	738.4	730.2
35°	447.7	460.0	461.0	450.8	452.8
37.5°	280.5	285.6	292.7	286.6	289.6
40°	182.6	181.5	186.6	185.6	179.5
42.5°	121.4	124.4	127.5	126.5	123.4
45°	83.6	90.8	92.8	90.8	87.7
47.5°	65.3	68.3	71.4	69.4	66.3
50°	55.1	56.1	58.1	56.1	56.1
52.5°	46.9	46.9	49.0	47.9	47.9
55°	38.8	39.8	40.8	39.8	38.8
57.5°	31.6	31.6	34.7	32.6	31.6
60°	26.5	26.5	28.6	26.5	27.5
62.5°	22.4	22.4	22.4	22.4	22.4
65°	18.4	18.4	17.3	18.4	18.4
67.5°	13.3	13.3	13.3	14.3	14.3
70°	10.2	10.2	10.2	10.2	10.2
72.5°	7.1	7.1	7.1	7.1	7.1
75°	4.1	4.1	4.1	4.1	4.1
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)