

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: P328662

Luminaire Tested: **L815SQ20NF927MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P328662
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-290-18)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L815SQ20NF927MB
Description: Square Track 13x1, 2000lm, 22°, 2700K, black finish
Light Source: (13) 2700K CCT, 92 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

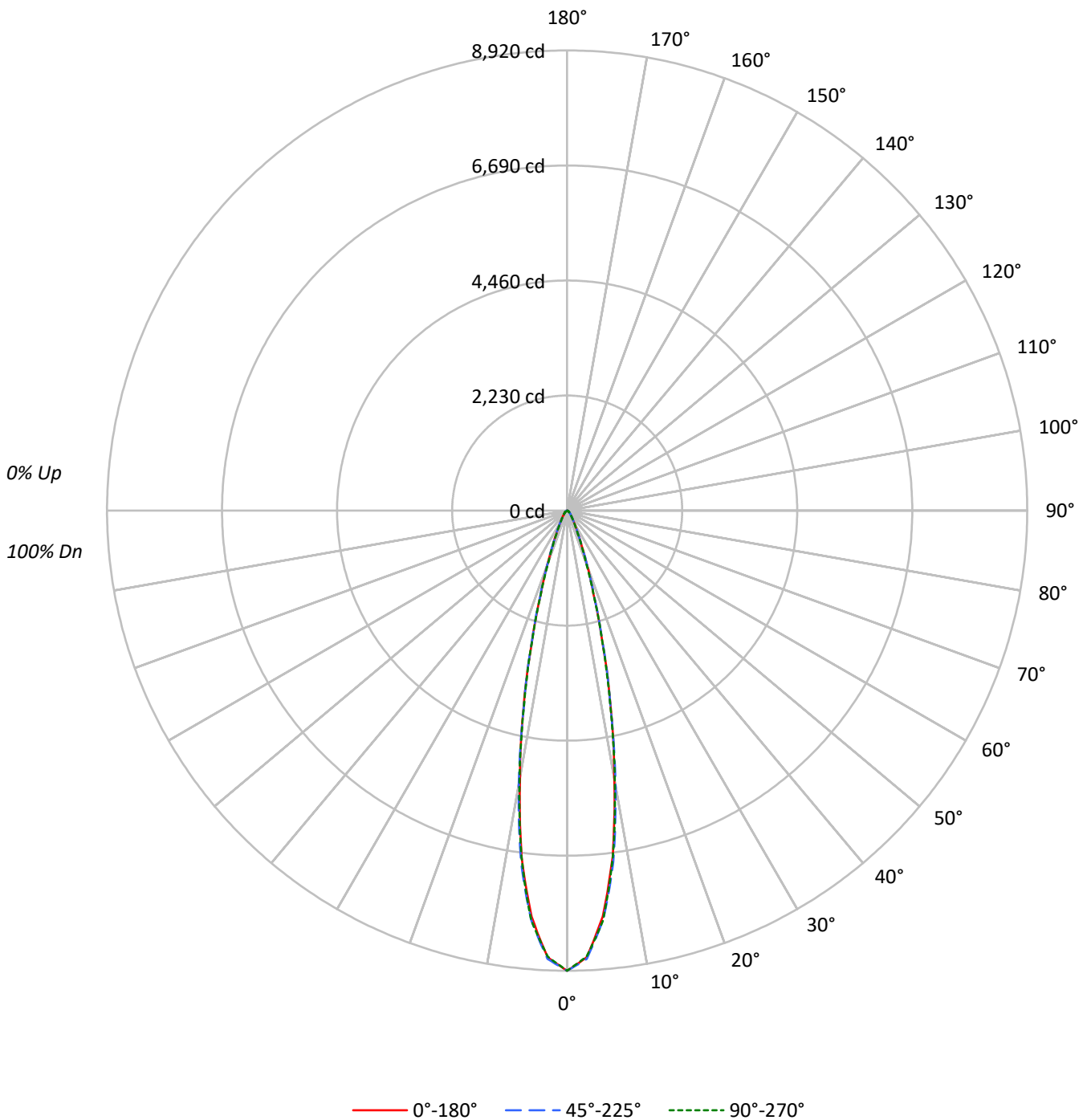
Lumens per Lamp: N/A
Luminaire Lumens: 1911.0 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.39
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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	100	100	100	100	100		
1	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96	96	96	96	96	96	96		
2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	94	93	92	92	92	92	92	92	92		
3	106	101	97	94	105	100	96	93	97	94	92	95	93	91	93	91	89	88	88	88	88	88	88	88		
4	103	97	92	89	101	96	92	89	94	90	88	92	89	87	90	88	86	84	84	84	84	84	84	84		
5	99	93	88	85	98	92	88	85	90	87	84	89	86	83	87	85	83	81	81	81	81	81	81	81		
6	96	89	85	82	95	89	84	81	87	84	81	86	83	80	85	82	80	79	79	79	79	79	79	79		
7	93	86	82	79	92	86	81	78	85	81	78	84	80	78	83	80	77	76	76	76	76	76	76	76		
8	91	83	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74	74	74	74	74	74	74		
9	88	81	77	74	87	80	76	73	80	76	73	79	75	73	78	75	73	72	72	72	72	72	72	72		
10	86	79	74	71	85	78	74	71	77	74	71	77	73	71	76	73	71	70	70	70	70	70	70	70		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	864129	864129	864129
5°	768395	775290	776068
10°	518872	530951	524469
15°	265756	267160	265656
20°	115794	116103	109206
25°	52611	53466	50912
30°	29039	29599	28368
35°	18780	18662	18307
40°	13127	13127	13000
45°	10261	10261	10124
50°	8575	8575	8425
55°	7246	7583	7246
60°	6374	6568	6374
65°	5501	5272	5501
70°	4249	4249	4249
75°	2620	2620	2620
80°	558	558	558
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	675.3	35.3
10°-20°	753.0	39.4
20°-30°	250.7	13.1
30°-40°	102.6	5.4
40°-50°	58.7	3.1
50°-60°	39.5	2.1
60°-70°	23.5	1.2
70°-80°	7.6	0.4
80°-90°	0.1	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°	1678.9	87.9
0°-40°	1781.5	93.2
0°-60°	1879.7	98.4
0°-90°	1911.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1911.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8920	8920	8920	8920	8920	
5°	7902	7937	7972	7954	7980	671
15°	2650	2639	2664	2663	2649	751
25°	492	496	500	487	476	252
35°	159	159	158	154	155	103
45°	75	74	75	74	74	59
55°	43	44	45	44	43	39
65°	24	24	23	24	24	23
75°	7	7	7	7	7	7
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8920.0	8920.0	8920.0	8920.0	8920.0
2.5°	8667.4	8684.4	8698.4	8697.4	8654.4
5°	7901.6	7936.6	7972.5	7953.5	7980.5
7.5°	6759.4	6792.4	6866.2	6772.4	6787.4
10°	5274.7	5333.6	5397.5	5366.6	5331.6
12.5°	3903.9	3927.8	3881.9	3906.9	3850.0
15°	2649.8	2638.9	2663.8	2662.8	2648.8
17.5°	1704.3	1717.3	1734.3	1721.3	1695.3
20°	1123.2	1117.2	1126.2	1098.3	1059.3
22.5°	739.8	742.8	744.8	713.9	712.9
25°	492.2	496.2	500.2	487.2	476.3
27.5°	350.5	354.4	356.4	354.4	340.5
30°	259.6	265.6	264.6	257.6	253.6
32.5°	202.7	200.7	201.7	197.7	198.7
35°	158.8	158.8	157.8	153.8	154.8
37.5°	126.8	126.8	125.8	125.8	123.8
40°	103.8	103.8	103.8	102.8	102.8
42.5°	87.9	86.9	86.9	86.9	85.9
45°	74.9	73.9	74.9	73.9	73.9
47.5°	64.9	64.9	64.9	63.9	63.9
50°	56.9	56.9	56.9	55.9	55.9
52.5°	49.9	49.9	50.9	49.9	49.9
55°	42.9	43.9	44.9	43.9	42.9
57.5°	37.9	37.9	39.9	37.9	36.9
60°	32.9	32.9	33.9	32.9	32.9
62.5°	28.0	28.0	29.0	28.0	28.0
65°	24.0	24.0	23.0	24.0	24.0
67.5°	19.0	19.0	19.0	20.0	19.0
70°	15.0	15.0	15.0	15.0	15.0
72.5°	10.0	11.0	11.0	11.0	10.0
75°	7.0	7.0	7.0	7.0	7.0
77.5°	3.0	3.0	4.0	3.0	3.0
80°	1.0	1.0	1.0	1.0	1.0
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)