

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: P328702

Luminaire Tested: **L815SQ40NF927MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P328702
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-290-24)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L815SQ40NF927MB
Description: Square Track 26x1, 4000lm, 22°, 2700K, black finish
Light Source: (26) 2700K CCT, 92 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

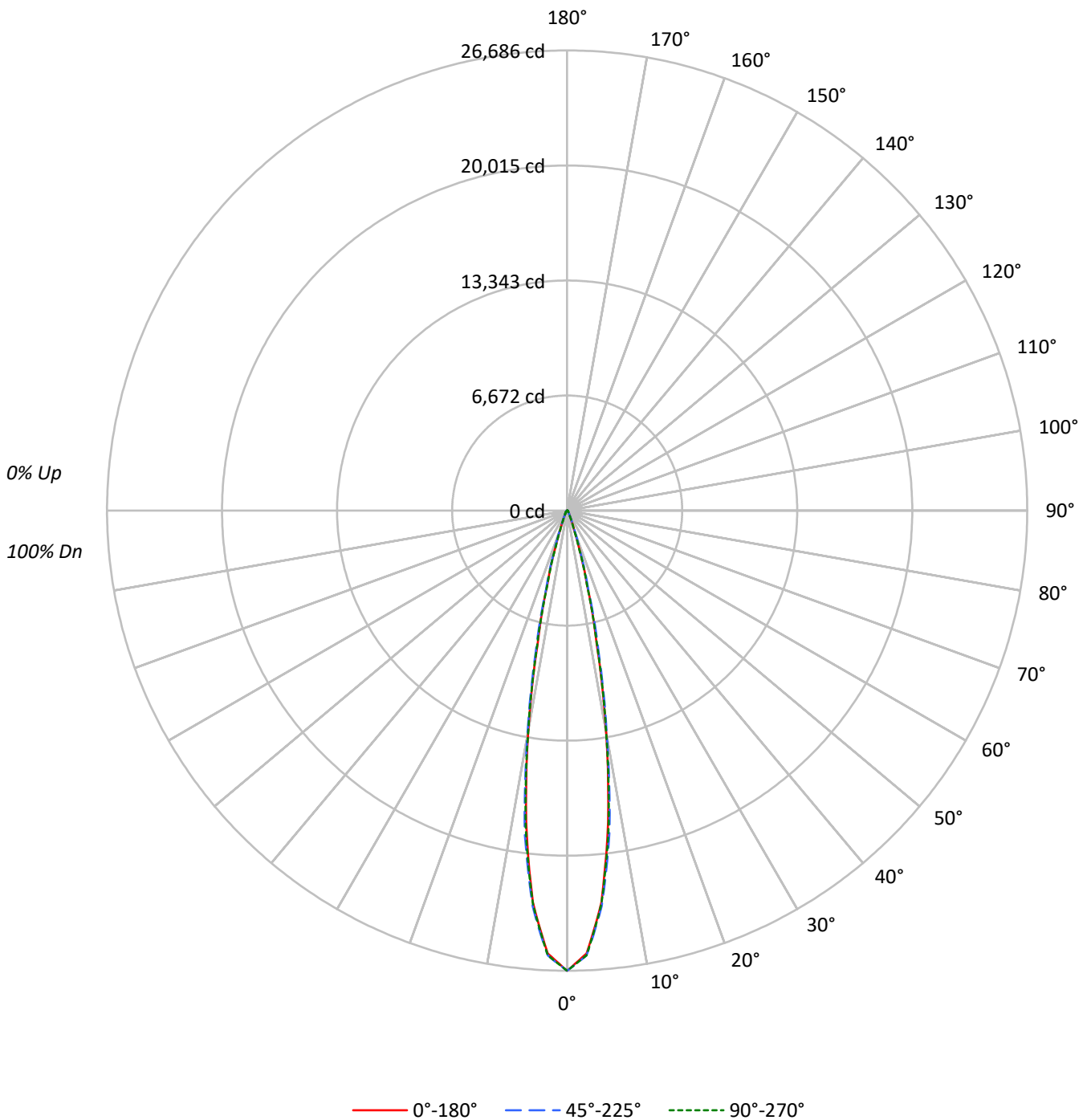
Lumens per Lamp: N/A
Luminaire Lumens: 3810.0 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.33
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 52
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: P328702
CATALOG NUMBER: L815SQ40NF927MB

Luminous Intensity Polar Plot





TEST NUMBER: P328702

CATALOG NUMBER: L815SQ40NF927MB

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	113	111	110	113	111	109	108	107	106	105	103	102	101	100	99	99	97	97	97	97	97	97	97		
2	112	108	105	103	110	106	104	102	103	101	100	101	99	97	98	97	95	94	94	94	94	94	94	94		
3	108	104	100	98	107	103	99	97	100	98	95	98	96	94	96	94	93	91	91	91	91	91	91	91		
4	105	100	97	94	104	99	96	93	97	94	92	95	93	91	94	92	90	89	89	89	89	89	89	89		
5	103	97	93	90	101	96	93	90	95	92	89	93	91	89	92	90	88	87	87	87	87	87	87	87		
6	100	94	91	88	99	94	90	87	92	89	87	91	88	86	90	88	86	85	85	85	85	85	85	85		
7	98	92	88	85	97	91	88	85	90	87	85	89	86	84	88	86	84	83	83	83	83	83	83	83		
8	96	90	86	83	95	89	86	83	88	85	83	88	85	83	87	84	82	81	81	81	81	81	81	81		
9	94	88	84	82	93	87	84	81	87	83	81	86	83	81	85	83	81	80	80	80	80	80	80	80		
10	92	86	82	80	91	85	82	80	85	82	80	84	81	79	84	81	79	78	78	78	78	78	78	78		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2585179	2585179	2585179
5°	2216273	2237764	2224247
10°	1278346	1308447	1282478
15°	449924	478106	442903
20°	121031	142783	121031
25°	46283	50025	43932
30°	27071	26288	26176
35°	19159	19040	19750
40°	13531	12899	14796
45°	11782	10960	12193
50°	10550	10701	11605
55°	9796	8276	9796
60°	9300	8913	10269
65°	8711	10086	7794
70°	4815	5098	8214
75°	5240	4117	3743
80°	1116	0	0
85°	0	2223	10004



TEST NUMBER: P328702

CATALOG NUMBER: L815SQ40NF927MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1873.5	49.2
10°-20°	1429.4	37.5
20°-30°	242.4	6.4
30°-40°	99.9	2.6
40°-50°	67.0	1.8
50°-60°	51.1	1.3
60°-70°	33.9	0.9
70°-80°	9.7	0.3
80°-90°	3.2	0.1
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°	3545.2	93.1
0°-40°	3645.2	95.7
0°-60°	3763.2	98.8
0°-90°	3810.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3810.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26686	26686	26686	26686	26686	
5°	22790	22898	23012	22996	22872	1853
15°	4486	4608	4767	4637	4416	1384
25°	433	441	468	434	411	233
35°	162	161	161	156	167	99
45°	86	77	80	84	89	66
55°	58	58	49	54	58	51
65°	38	40	44	40	34	31
75°	14	12	11	15	10	9
85°	0	1	2	0	9	3
90°	0	0	0	0	0	



TEST NUMBER: P328702

CATALOG NUMBER: L815SQ40NF927MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	26685.6	26685.6	26685.6	26685.6	26685.6
2.5°	25706.6	25762.6	25823.6	25762.6	25815.6
5°	22790.5	22897.5	23011.5	22996.5	22872.5
7.5°	18193.4	18480.4	18834.4	18484.4	18441.4
10°	12995.3	13242.3	13301.3	13170.3	13037.3
12.5°	7980.2	8308.2	8423.2	8341.2	8085.2
15°	4486.1	4608.1	4767.1	4637.1	4416.1
17.5°	2344.1	2455.1	2606.1	2464.1	2223.1
20°	1174.0	1290.0	1385.0	1272.0	1174.0
22.5°	656.0	695.0	777.0	665.0	615.0
25°	433.0	441.0	468.0	434.0	411.0
27.5°	316.0	315.0	318.0	302.0	301.0
30°	242.0	242.0	235.0	233.0	234.0
32.5°	187.0	190.0	189.0	192.0	194.0
35°	162.0	161.0	161.0	156.0	167.0
37.5°	120.0	124.0	125.0	118.0	131.0
40°	107.0	104.0	102.0	113.0	117.0
42.5°	91.0	97.0	97.0	101.0	103.0
45°	86.0	77.0	80.0	84.0	89.0
47.5°	79.0	76.0	73.0	83.0	81.0
50°	70.0	72.0	71.0	73.0	77.0
52.5°	67.0	68.0	62.0	64.0	72.0
55°	58.0	58.0	49.0	54.0	58.0
57.5°	45.0	49.0	40.0	54.0	48.0
60°	48.0	48.0	46.0	52.0	53.0
62.5°	36.0	44.0	44.0	48.0	45.0
65°	38.0	40.0	44.0	40.0	34.0
67.5°	21.0	15.0	16.0	20.0	24.0
70°	17.0	24.0	18.0	18.0	29.0
72.5°	5.0	10.0	9.0	5.0	3.0
75°	14.0	12.0	11.0	15.0	10.0
77.5°	5.0	10.0	7.0	1.0	12.0
80°	2.0	2.0	0.0	0.0	0.0
82.5°	7.0	3.0	4.0	1.0	12.0
85°	0.0	1.0	2.0	0.0	9.0
87.5°	2.0	3.0	10.0	5.0	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)