

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: P328698

Luminaire Tested: **L815SQ40FL927MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P328698
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-290-25)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L815SQ40FL927MB
Description: Square Track 26x1, 4000lm, 37°, 2700K, black finish
Light Source: (26) 2700K CCT, 92 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

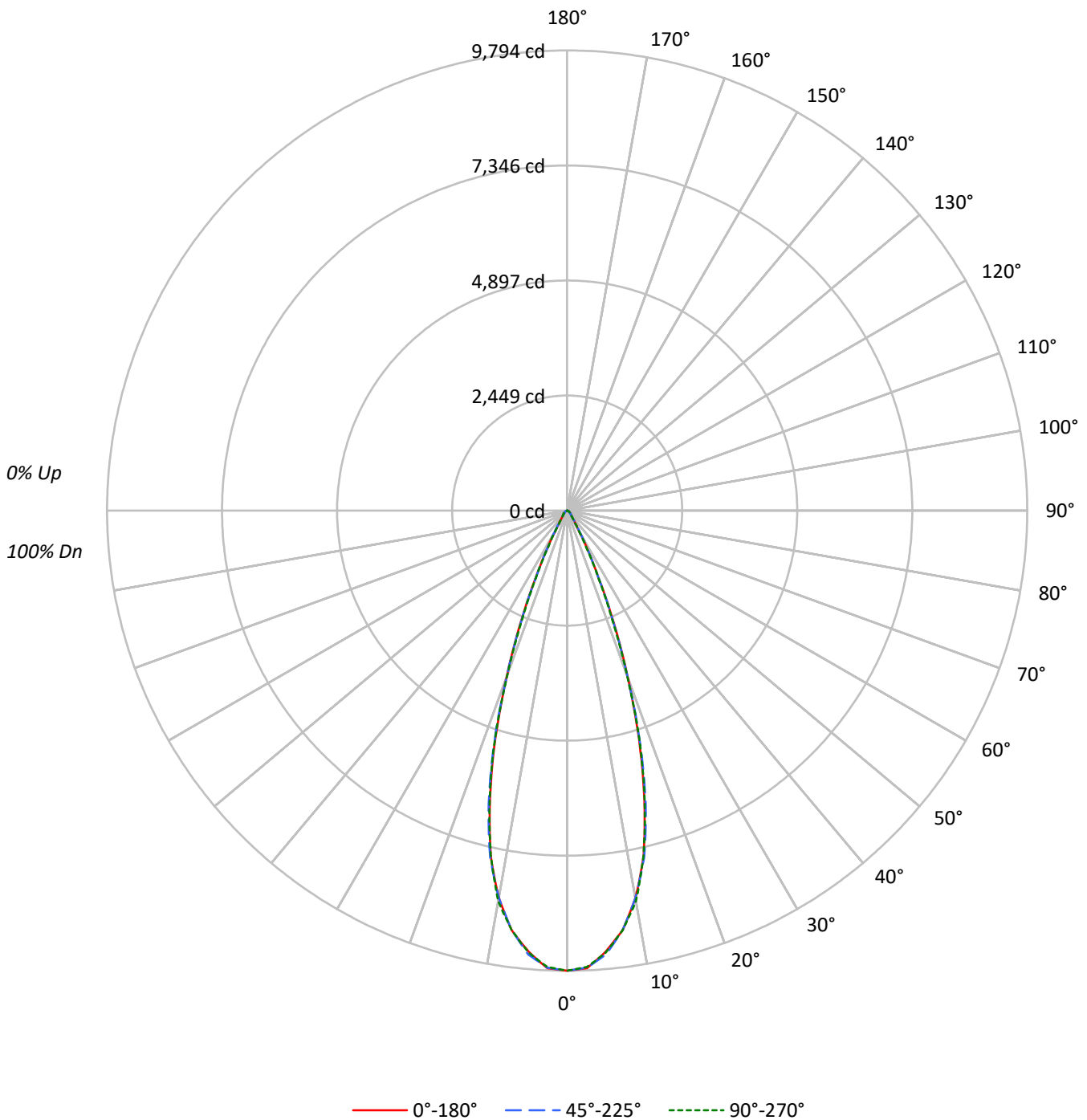
Lumens per Lamp: N/A
Luminaire Lumens: 3718.0 lumens
Efficiency: N/A
Efficacy: 71.5 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.6 / 0.56
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	106	102	100	108	104	101	99	101	99	96	98	96	94	95	94	92	91
3	106	100	96	93	104	99	95	92	97	93	91	94	92	89	92	90	88	87
4	102	96	91	88	100	95	90	87	93	89	86	91	88	85	89	86	84	83
5	98	91	87	83	97	90	86	83	89	85	82	87	84	81	86	83	81	79
6	95	87	83	79	93	87	82	79	85	81	78	84	81	78	83	80	77	76
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	74	73
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68
10	83	75	70	67	82	75	70	67	74	70	67	73	70	67	73	69	67	66

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	948788	948788	948788
5°	916247	922179	917997
10°	823563	823661	830153
15°	636388	647922	639497
20°	386453	386556	382948
25°	168758	167903	166941
30°	59835	63862	57038
35°	26018	27082	25545
40°	17452	17578	17831
45°	14933	14385	15344
50°	13263	11605	13564
55°	11823	10303	12161
60°	10269	8913	10269
65°	7335	7335	7335
70°	5665	5098	5382
75°	2994	2994	2994
80°	558	558	558
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	869.2	23.4
10°-20°	1712.4	46.1
20°-30°	788.6	21.2
30°-40°	163.3	4.4
40°-50°	84.0	2.3
50°-60°	59.7	1.6
60°-70°	32.0	0.9
70°-80°	8.5	0.2
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°	3370.3	90.6
0°-40°	3533.6	95.0
0°-60°	3677.3	98.9
0°-90°	3718.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3718.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9794	9794	9794	9794	9794	
5°	9422	9493	9483	9476	9440	868
15°	6345	6381	6460	6401	6376	1704
25°	1579	1575	1571	1545	1562	794
35°	220	225	229	222	216	162
45°	109	107	105	109	112	85
55°	70	67	61	68	72	62
65°	32	30	32	30	32	34
75°	8	7	8	7	8	9
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°	9793.9	9793.9	9793.9	9793.9	9793.9
2.5°	9749.0	9750.0	9735.0	9731.0	9721.0
5°	9422.0	9493.0	9483.0	9476.0	9440.0
7.5°	9014.0	9012.0	9009.0	9013.0	9011.0
10°	8372.1	8372.1	8373.1	8400.1	8439.1
12.5°	7527.2	7521.2	7567.2	7572.2	7510.2
15°	6345.3	6381.3	6460.3	6401.3	6376.3
17.5°	5077.5	5129.4	5145.4	5093.5	5118.4
20°	3748.6	3728.6	3749.6	3759.6	3714.6
22.5°	2588.7	2559.7	2569.7	2518.7	2491.7
25°	1578.8	1574.8	1570.8	1544.8	1561.8
27.5°	932.9	951.9	947.9	931.9	874.9
30°	534.9	551.9	570.9	544.9	509.9
32.5°	335.0	335.0	348.0	331.0	315.0
35°	220.0	225.0	229.0	222.0	216.0
37.5°	168.0	167.0	169.0	169.0	166.0
40°	138.0	138.0	139.0	140.0	141.0
42.5°	121.0	119.0	121.0	123.0	125.0
45°	109.0	107.0	105.0	109.0	112.0
47.5°	98.0	96.0	90.0	97.0	101.0
50°	88.0	85.0	77.0	87.0	90.0
52.5°	78.0	76.0	68.0	78.0	81.0
55°	70.0	67.0	61.0	68.0	72.0
57.5°	61.0	59.0	54.0	59.0	62.0
60°	53.0	50.0	46.0	50.0	53.0
62.5°	42.0	41.0	39.0	40.0	42.0
65°	32.0	30.0	32.0	30.0	32.0
67.5°	26.0	23.0	26.0	23.0	25.0
70°	20.0	18.0	18.0	17.0	19.0
72.5°	12.0	12.0	12.0	12.0	12.0
75°	8.0	7.0	8.0	7.0	8.0
77.5°	4.0	4.0	3.0	3.0	4.0
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)