

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: P328681

Luminaire Tested: **L815SQ30FL940MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P328681
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: L815SQ30FL940MB
Description: Square Track 26x1, 3000lm, 37°, 4000K, black finish
Light Source: (26) 4000K CCT, 92 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

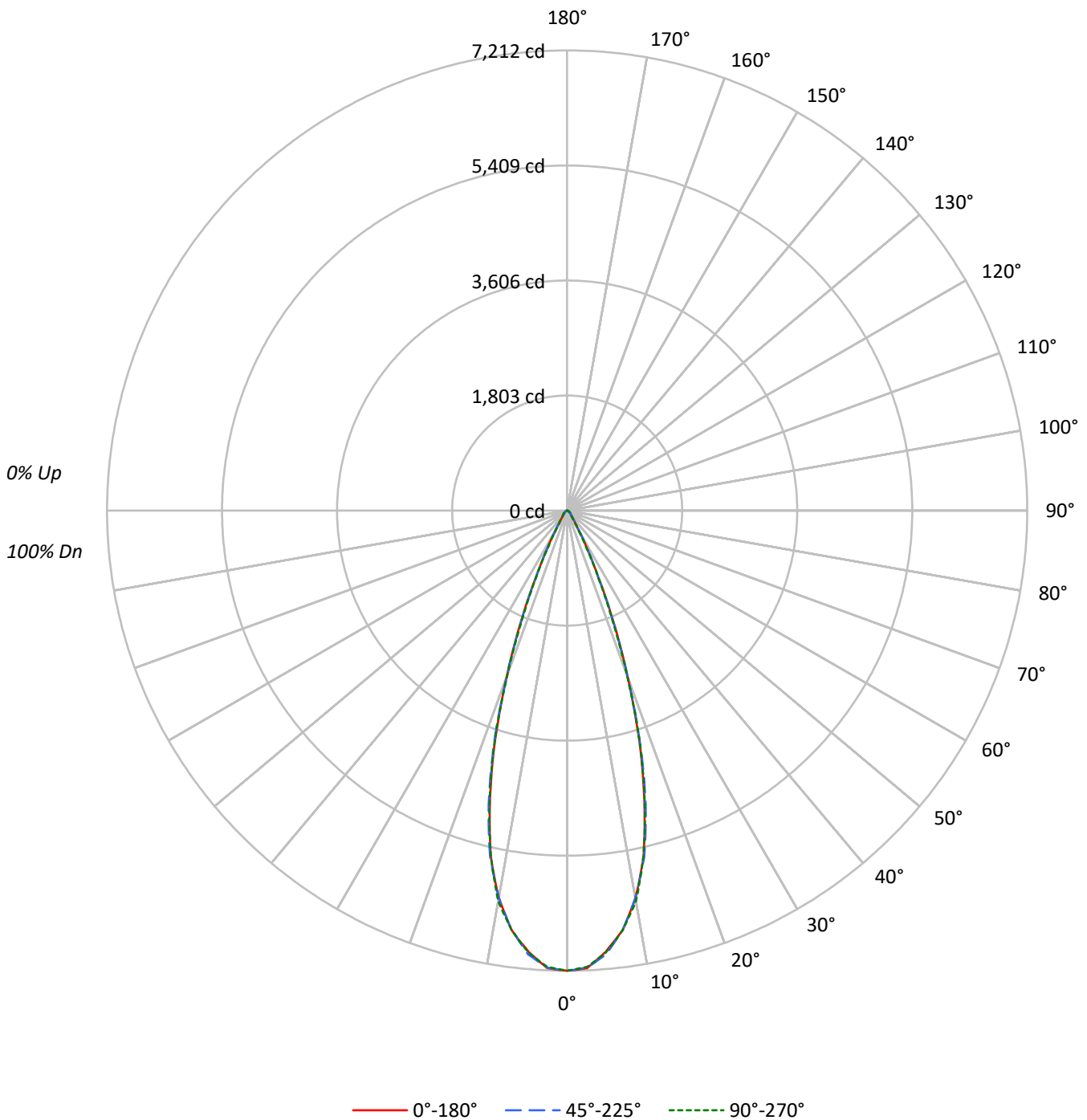
Lumens per Lamp: N/A
Luminaire Lumens: 2738.0 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.6 / 0.56
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 34
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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95				95
2	110	106	102	100	108	104	101	99	101	99	96	98	96	94	95	94	92	91				91
3	106	100	96	93	104	99	95	92	97	93	91	94	92	89	92	90	88	87				87
4	102	96	91	88	100	95	90	87	93	89	86	91	88	85	89	86	84	83				83
5	98	91	87	83	97	90	86	83	89	85	82	87	84	81	86	83	81	79				79
6	95	87	83	79	93	87	82	79	85	81	78	84	81	78	83	80	77	76				76
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	74	73				73
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71				71
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68				68
10	83	75	70	67	82	75	70	67	74	70	67	73	70	67	73	69	67	66				66

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	698704	698704	698704
5°	674738	679104	676031
10°	606490	606559	611339
15°	468648	477143	470935
20°	284587	284670	282010
25°	124281	123651	122945
30°	44062	47027	42004
35°	19159	19939	18804
40°	12849	12950	13127
45°	11001	10590	11303
50°	9766	8545	9992
55°	8698	7583	8952
60°	7556	6568	7556
65°	5410	5410	5410
70°	4164	3767	3965
75°	2208	2208	2208
80°	391	391	391
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	640.1	23.4
10°-20°	1261.1	46.1
20°-30°	580.8	21.2
30°-40°	120.3	4.4
40°-50°	61.9	2.3
50°-60°	44.0	1.6
60°-70°	23.6	0.9
70°-80°	6.3	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°	2481.9	90.6
0°-40°	2602.2	95.0
0°-60°	2708.0	98.9
0°-90°	2738.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2738.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7212	7212	7212	7212	7212	
5°	6938	6991	6983	6978	6952	639
15°	4673	4699	4758	4714	4696	1255
25°	1163	1160	1157	1138	1150	585
35°	162	166	169	164	159	119
45°	80	79	77	80	82	63
55°	52	49	45	50	53	46
65°	24	22	24	22	24	25
75°	6	5	6	5	6	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°	7212.4	7212.4	7212.4	7212.4	7212.4
2.5°	7179.3	7180.0	7169.0	7166.0	7158.7
5°	6938.5	6990.8	6983.4	6978.3	6951.8
7.5°	6638.1	6636.6	6634.4	6637.4	6635.9
10°	6165.4	6165.4	6166.1	6186.0	6214.7
12.5°	5543.2	5538.7	5572.6	5576.3	5530.6
15°	4672.8	4699.3	4757.5	4714.0	4695.6
17.5°	3739.1	3777.4	3789.2	3750.9	3769.3
20°	2760.5	2745.8	2761.3	2768.6	2735.5
22.5°	1906.4	1885.0	1892.4	1854.8	1835.0
25°	1162.7	1159.7	1156.8	1137.6	1150.2
27.5°	687.0	701.0	698.0	686.3	644.3
30°	393.9	406.5	420.4	401.3	375.5
32.5°	246.7	246.7	256.2	243.7	231.9
35°	162.0	165.7	168.6	163.5	159.0
37.5°	123.7	123.0	124.4	124.4	122.2
40°	101.6	101.6	102.4	103.1	103.8
42.5°	89.1	87.6	89.1	90.6	92.0
45°	80.3	78.8	77.3	80.3	82.5
47.5°	72.2	70.7	66.3	71.4	74.4
50°	64.8	62.6	56.7	64.1	66.3
52.5°	57.4	56.0	50.1	57.4	59.6
55°	51.5	49.3	44.9	50.1	53.0
57.5°	44.9	43.4	39.8	43.4	45.7
60°	39.0	36.8	33.9	36.8	39.0
62.5°	30.9	30.2	28.7	29.5	30.9
65°	23.6	22.1	23.6	22.1	23.6
67.5°	19.1	16.9	19.1	16.9	18.4
70°	14.7	13.3	13.3	12.5	14.0
72.5°	8.8	8.8	8.8	8.8	8.8
75°	5.9	5.2	5.9	5.2	5.9
77.5°	2.9	2.9	2.2	2.2	2.9
80°	0.7	0.7	0.7	0.7	0.7
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)