

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: P328661

Luminaire Tested: **L815SQ20FL940MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P328661
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-290-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L815SQ20FL940MB
Description: Square Track 13x1, 2000lm, 37°, 4000K, black finish
Light Source: (13) 4000K CCT, 92 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

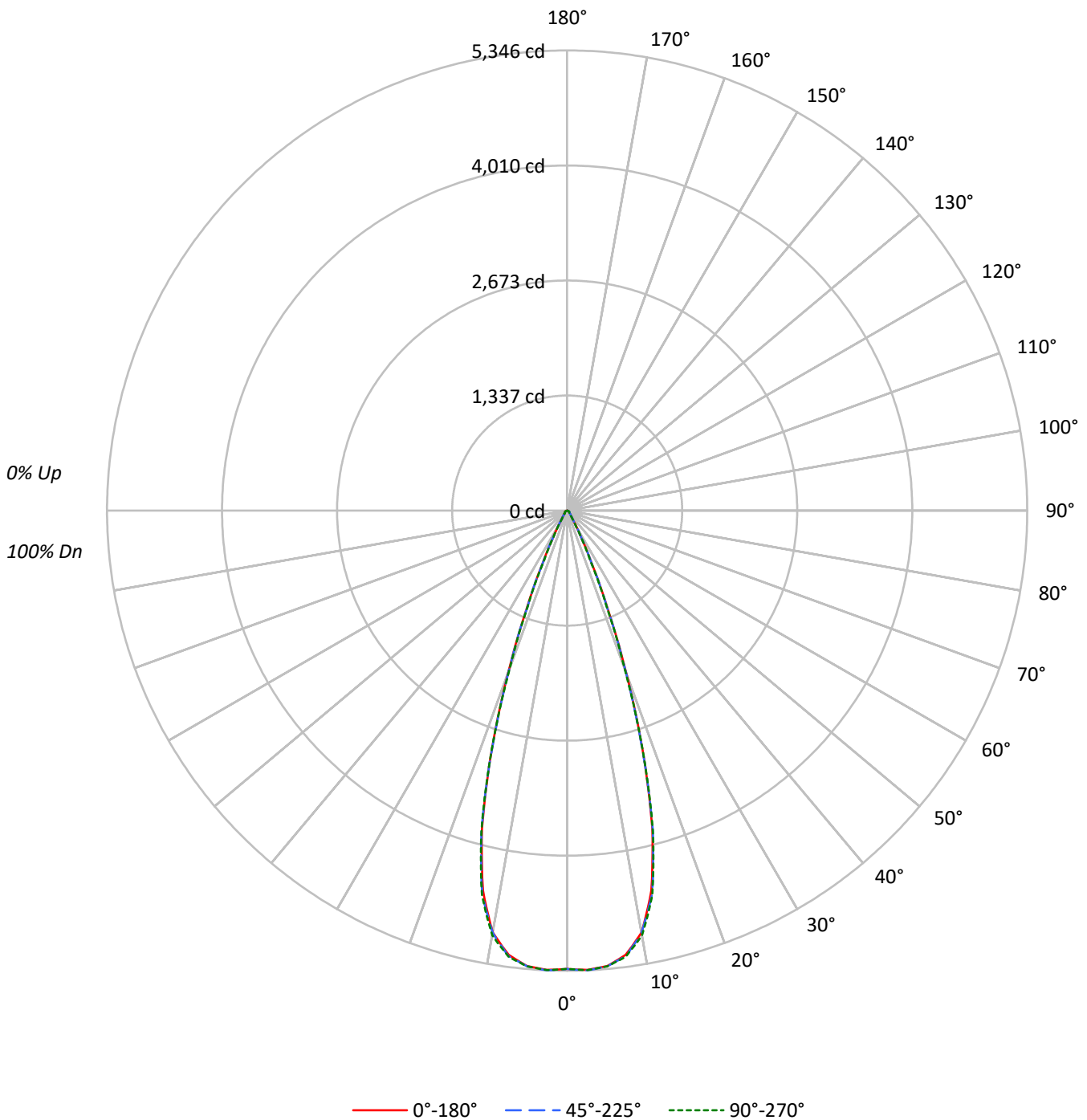
Lumens per Lamp: N/A
Luminaire Lumens: 2008.0 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Spacing Criteria (0/90/45): 0.62 / 0.62 / 0.55
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96					96			
2	110	106	103	100	108	105	102	99	101	99	97	99	97	95	96	94	93	91					91			
3	106	101	97	94	104	100	96	93	97	94	92	95	92	90	93	91	89	88					88			
4	102	96	92	89	101	95	91	88	93	90	87	92	89	86	90	87	85	84					84			
5	99	92	88	84	97	92	87	84	90	86	83	88	85	83	87	84	82	81					81			
6	96	89	84	81	94	88	84	80	87	83	80	85	82	79	84	81	79	78					78			
7	92	85	81	77	91	85	80	77	84	80	77	83	79	77	82	78	76	75					75			
8	90	82	78	75	89	82	77	74	81	77	74	80	76	74	79	76	74	72					72			
9	87	79	75	72	86	79	75	72	78	74	72	77	74	71	77	73	71	70					70			
10	84	77	72	69	83	76	72	69	76	72	69	75	72	69	74	71	69	68					68			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	515959	515959	515959
5°	516636	516831	517035
10°	489705	490000	492912
15°	382968	385526	386248
20°	205247	204721	201041
25°	71520	71627	66069
30°	22932	23390	20191
35°	10372	10253	9414
40°	7221	7095	6576
45°	5590	5590	5028
50°	5380	5380	5079
55°	5337	5692	5168
60°	5134	5328	4941
65°	4676	4218	4447
70°	3456	3172	3456
75°	1909	1909	1909
80°	0	558	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	497.7	24.8
10°-20°	1004.7	50.0
20°-30°	359.2	17.9
30°-40°	61.8	3.1
40°-50°	31.8	1.6
50°-60°	28.1	1.4
60°-70°	19.1	0.9
70°-80°	5.7	0.3
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°	1861.6	92.7
0°-40°	1923.3	95.8
0°-60°	1983.2	98.8
0°-90°	2008.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2008.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5326	5326	5326	5326	5326	
5°	5313	5318	5315	5325	5317	497
15°	3818	3849	3844	3853	3851	1000
25°	669	685	670	652	618	362
35°	88	88	87	82	80	63
45°	41	40	41	38	37	33
55°	32	33	34	32	31	28
65°	20	20	18	19	19	20
75°	5	5	5	5	5	6
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°	5326.0	5326.0	5326.0	5326.0	5326.0
2.5°	5341.3	5344.3	5346.4	5353.5	5343.3
5°	5312.7	5317.8	5314.7	5324.9	5316.8
7.5°	5205.6	5213.8	5220.9	5231.1	5226.0
10°	4978.2	4975.1	4981.2	5006.7	5010.8
12.5°	4521.3	4534.5	4564.1	4558.0	4577.3
15°	3818.5	3849.1	3844.0	3853.2	3851.2
17.5°	2913.9	2943.5	2907.8	2932.2	2926.1
20°	1990.9	1989.8	1985.8	1986.8	1950.1
22.5°	1222.9	1223.9	1200.4	1167.8	1185.1
25°	669.1	685.4	670.1	651.7	618.1
27.5°	347.8	364.1	368.2	345.7	339.6
30°	205.0	204.0	209.1	194.8	180.5
32.5°	124.4	125.4	130.5	119.3	115.2
35°	87.7	87.7	86.7	81.6	79.6
37.5°	69.4	70.4	68.3	65.3	63.2
40°	57.1	56.1	56.1	52.0	52.0
42.5°	46.9	45.9	45.9	42.8	41.8
45°	40.8	39.8	40.8	37.7	36.7
47.5°	37.7	36.7	37.7	34.7	34.7
50°	35.7	35.7	35.7	33.7	33.7
52.5°	34.7	33.7	34.7	32.6	32.6
55°	31.6	32.6	33.7	31.6	30.6
57.5°	28.6	28.6	30.6	28.6	27.5
60°	26.5	25.5	27.5	25.5	25.5
62.5°	24.5	23.5	23.5	22.4	23.5
65°	20.4	20.4	18.4	19.4	19.4
67.5°	15.3	16.3	14.3	15.3	15.3
70°	12.2	12.2	11.2	12.2	12.2
72.5°	8.2	9.2	8.2	9.2	8.2
75°	5.1	5.1	5.1	5.1	5.1
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)