

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: P328666

Luminaire Tested: **L815SQ20SP927MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P328666
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-290-22)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L815SQ20SP927MB
Description: Square Track 13x1, 2000lm, 15°, 2700K, black finish
Light Source: (13) 2700K CCT, 92 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

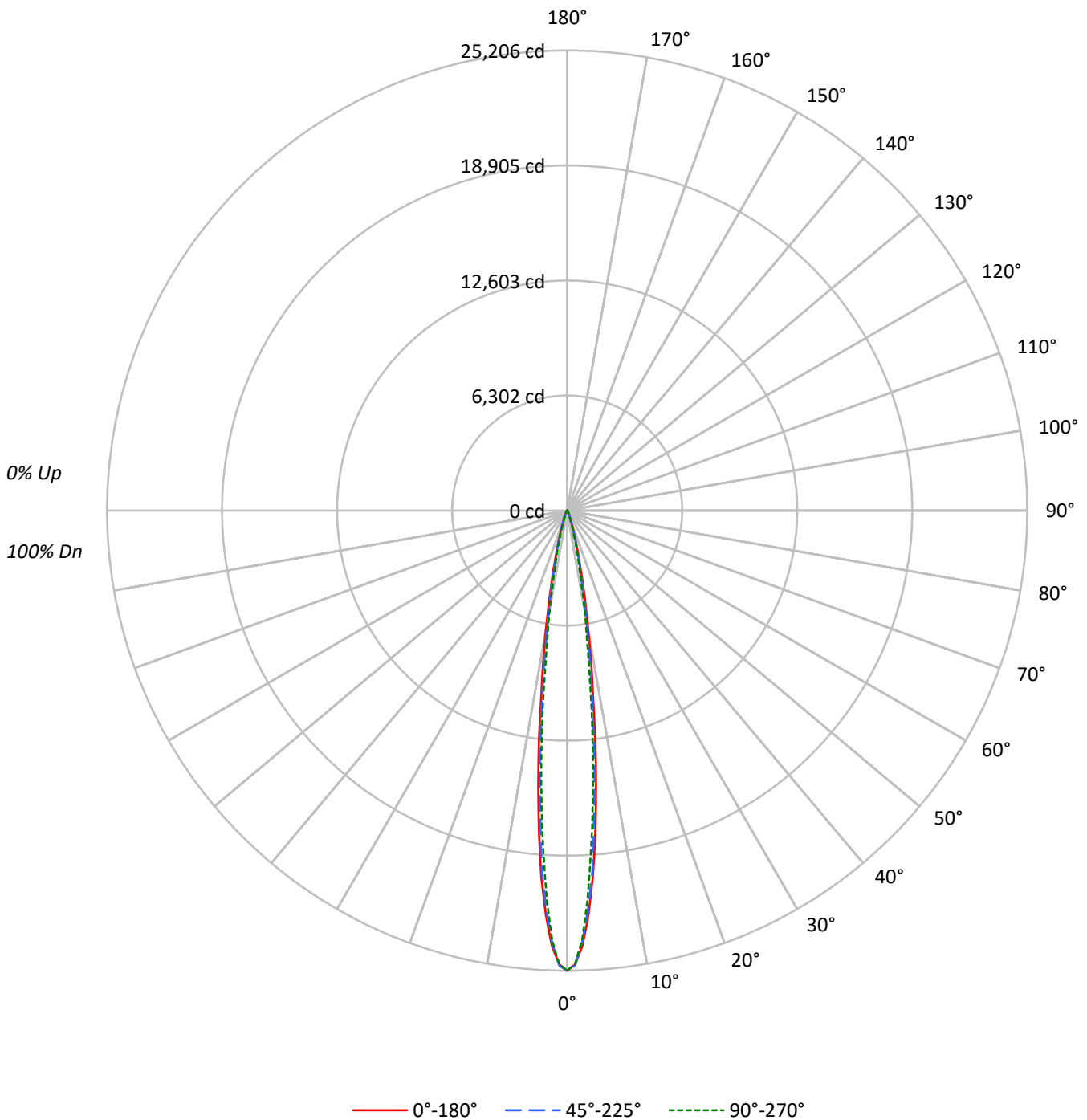
Lumens per Lamp: N/A
Luminaire Lumens: 2066.0 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Spacing Criteria (0/90/45): 0.24 / 0.22 / 0.24
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P328666
CATALOG NUMBER: L815SQ20SP927MB

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	115	114	112	110	113	111	110	109	107	106	105		104	103	102		100	100	99	98
2	112	109	106	104	110	107	105	103	104	102	101		101	100	99		99	98	97	95
3	109	105	102	99	108	104	101	99	101	99	97		99	97	96		97	96	94	93
4	107	102	98	96	105	101	98	95	99	96	94		97	95	93		96	94	92	91
5	104	99	96	93	103	98	95	93	97	94	92		95	93	91		94	92	90	89
6	102	97	93	91	101	96	93	90	95	92	90		94	91	89		93	90	89	88
7	100	95	91	89	99	94	91	88	93	90	88		92	90	88		91	89	87	86
8	98	93	89	87	97	92	89	87	91	89	86		91	88	86		90	88	86	85
9	96	91	88	85	96	91	87	85	90	87	85		89	87	85		89	86	85	84
10	95	89	86	84	94	89	86	84	89	86	84		88	85	84		87	85	83	83

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2441852	2441852	2441852
5°	1724931	1640239	1564816
10°	661587	600627	537139
15°	203574	186836	151342
20°	63320	62753	44608
25°	26071	23719	19796
30°	14766	12719	11690
35°	9757	8669	8018
40°	7183	6487	6032
45°	5782	5275	5028
50°	4973	4702	4416
55°	4645	4341	4020
60°	4263	3914	3914
65°	3782	3370	3370
70°	3116	3116	3116
75°	2059	2059	2059
80°	0	1004	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1240.5	60.0
10°-20°	587.1	28.4
20°-30°	115.7	5.6
30°-40°	48.1	2.3
40°-50°	30.5	1.5
50°-60°	22.7	1.1
60°-70°	15.7	0.8
70°-80°	5.5	0.3
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°	1943.3	94.1
0°-40°	1991.5	96.4
0°-60°	2044.7	99.0
0°-90°	2066.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2066.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25206	25206	25206	25206	25206	
5°	17738	17622	16867	16552	16091	1305
15°	2030	2013	1863	1648	1509	653
25°	244	238	222	196	185	128
35°	82	79	73	70	68	54
45°	42	40	38	37	37	33
55°	28	26	26	24	24	24
65°	16	16	15	16	15	17
75°	6	6	6	6	6	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°	25206.1	25206.1	25206.1	25206.1	25206.1
1°	24865.0	24980.5	24929.2	24843.0	24843.0
2°	23858.4	23935.4	23667.7	23524.7	23532.0
3°	22213.7	22259.5	21852.5	21652.6	21306.1
4°	20180.3	20127.1	19784.2	19298.3	18748.2
5°	17737.9	17622.4	16867.0	16551.6	16091.4
6°	15125.1	15128.8	14373.3	13825.1	13573.9
7°	12583.8	12378.4	11690.8	11093.1	11006.9
8°	10205.6	10053.5	9598.7	8953.3	8527.9
9°	8421.6	8113.5	7534.1	6993.2	6828.2
10°	6725.5	6423.0	6105.8	5638.2	5460.4
11°	5443.9	5194.5	4838.8	4351.1	4197.0
12°	4226.4	4129.2	3808.3	3481.9	3282.1
13°	3379.3	3261.9	3054.7	2695.3	2620.2
14°	2603.7	2585.3	2414.8	2106.8	1982.1
15°	2029.8	2013.3	1862.9	1648.4	1509.0
17.5°	1094.6	1125.8	1091.0	878.3	801.3
20°	614.2	628.9	608.7	495.1	432.7
22.5°	366.7	372.2	350.2	297.0	276.9
25°	243.9	238.4	221.9	196.2	185.2
27.5°	177.9	172.4	154.0	139.4	135.7
30°	132.0	122.8	113.7	106.3	104.5
32.5°	102.7	97.2	89.8	84.3	84.3
35°	82.5	78.8	73.3	69.7	67.8
37.5°	69.7	66.0	60.5	58.7	56.8
40°	56.8	55.0	51.3	49.5	47.7
42.5°	49.5	45.8	44.0	42.2	42.2
45°	42.2	40.3	38.5	36.7	36.7
47.5°	36.7	34.8	34.8	33.0	33.0
50°	33.0	31.2	31.2	29.3	29.3
52.5°	29.3	29.3	27.5	27.5	25.7
55°	27.5	25.7	25.7	23.8	23.8
57.5°	23.8	23.8	22.0	22.0	22.0
60°	22.0	20.2	20.2	20.2	20.2
62.5°	20.2	18.3	18.3	18.3	18.3
65°	16.5	16.5	14.7	16.5	14.7
67.5°	14.7	14.7	12.8	12.8	12.8
70°	11.0	11.0	11.0	11.0	11.0
72.5°	7.3	7.3	7.3	7.3	7.3
75°	5.5	5.5	5.5	5.5	5.5
77.5°	3.7	1.8	3.7	1.8	1.8
80°	0.0	0.0	1.8	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



TEST NUMBER: P328666

CATALOG NUMBER: L815SQ20SP927MB

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)