

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: P328642

Luminaire Tested: **L815SQ10NF927MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P328642
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-290-18)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L815SQ10NF927MB
Description: Square Track 13x1, 1000lm, 22°, 2700K, black finish
Light Source: (13) 2700K CCT, 92 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

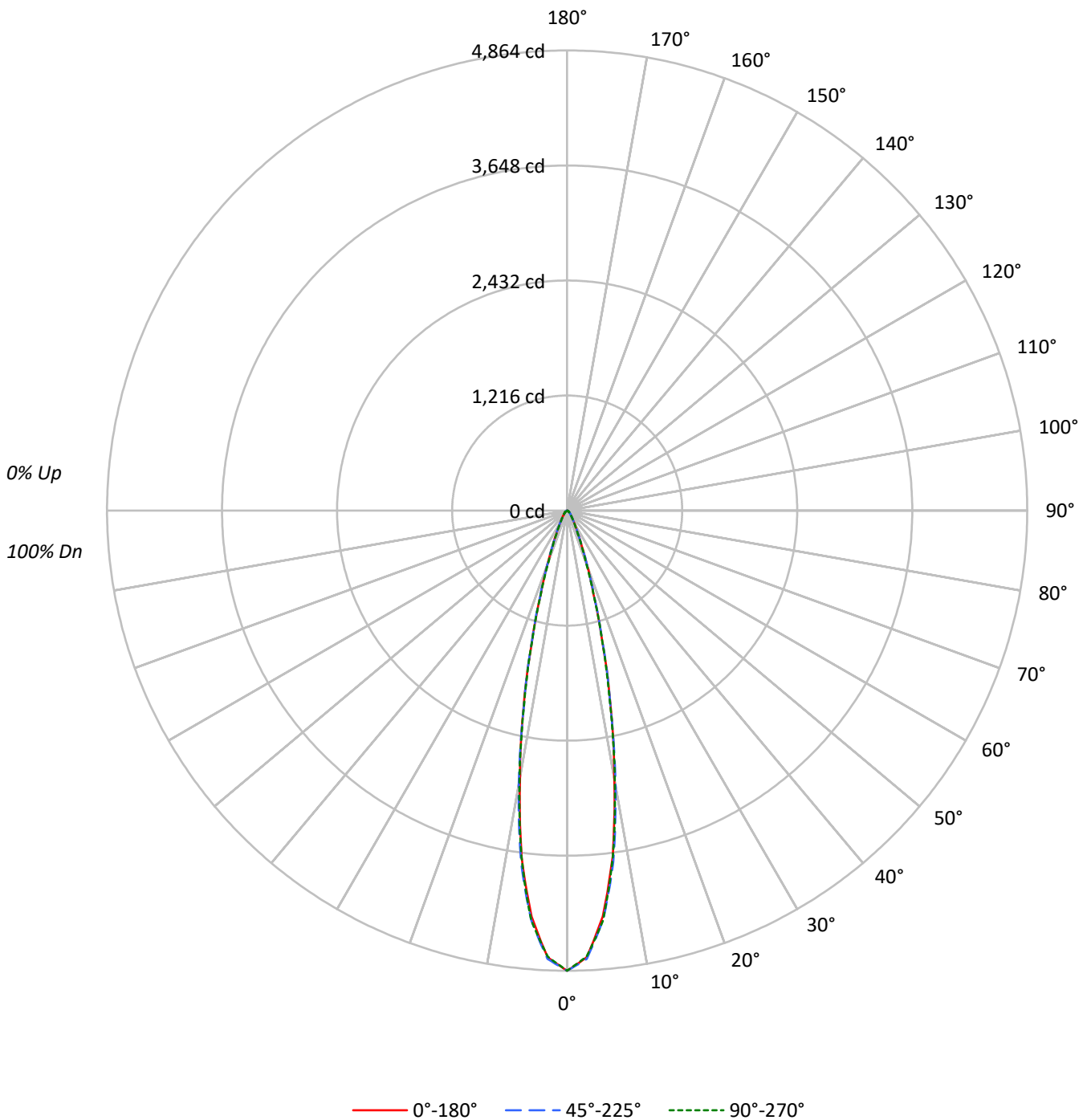
Lumens per Lamp: N/A
Luminaire Lumens: 1042.0 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.39
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 14.2
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: P328642
CATALOG NUMBER: L815SQ10NF927MB

Luminous Intensity Polar Plot





TEST NUMBER: P328642

CATALOG NUMBER: L815SQ10NF927MB

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	471183	471183	471183
5°	418982	422736	423164
10°	282922	289512	285981
15°	144913	145675	144853
20°	63144	63309	59546
25°	28689	29149	27759
30°	15828	16142	15471
35°	10242	10171	9981
40°	7158	7158	7095
45°	5590	5590	5521
50°	4672	4672	4597
55°	3952	4138	3952
60°	3488	3584	3488
65°	3003	2865	3003
70°	2323	2323	2323
75°	1422	1422	1422
80°	279	279	279
85°	0	0	0



TEST NUMBER: P328642

CATALOG NUMBER: L815SQ10NF927MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.2	35.3
10°-20°	410.6	39.4
20°-30°	136.7	13.1
30°-40°	55.9	5.4
40°-50°	32.0	3.1
50°-60°	21.6	2.1
60°-70°	12.8	1.2
70°-80°	4.1	0.4
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°	915.5	87.9
0°-40°	971.4	93.2
0°-60°	1025.0	98.4
0°-90°	1042.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1042.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4864	4864	4864	4864	4864	
5°	4308	4328	4347	4337	4352	366
15°	1445	1439	1452	1452	1444	409
25°	268	271	273	266	260	137
35°	87	87	86	84	84	56
45°	41	40	41	40	40	32
55°	23	24	24	24	23	21
65°	13	13	12	13	13	13
75°	4	4	4	4	4	4
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P328642

CATALOG NUMBER: L815SQ10NF927MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4863.8	4863.8	4863.8	4863.8	4863.8
2.5°	4726.0	4735.3	4742.9	4742.4	4719.0
5°	4308.5	4327.5	4347.1	4336.8	4351.5
7.5°	3685.7	3703.6	3743.9	3692.7	3700.9
10°	2876.1	2908.2	2943.1	2926.2	2907.2
12.5°	2128.6	2141.7	2116.7	2130.3	2099.2
15°	1444.9	1438.9	1452.5	1451.9	1444.3
17.5°	929.3	936.4	945.6	938.6	924.4
20°	612.5	609.2	614.1	598.9	577.6
22.5°	403.4	405.0	406.1	389.3	388.7
25°	268.4	270.6	272.7	265.7	259.7
27.5°	191.1	193.3	194.4	193.3	185.6
30°	141.5	144.8	144.3	140.5	138.3
32.5°	110.5	109.4	110.0	107.8	108.3
35°	86.6	86.6	86.0	83.8	84.4
37.5°	69.1	69.1	68.6	68.6	67.5
40°	56.6	56.6	56.6	56.1	56.1
42.5°	47.9	47.4	47.4	47.4	46.8
45°	40.8	40.3	40.8	40.3	40.3
47.5°	35.4	35.4	35.4	34.8	34.8
50°	31.0	31.0	31.0	30.5	30.5
52.5°	27.2	27.2	27.8	27.2	27.2
55°	23.4	24.0	24.5	24.0	23.4
57.5°	20.7	20.7	21.8	20.7	20.1
60°	18.0	18.0	18.5	18.0	18.0
62.5°	15.2	15.2	15.8	15.2	15.2
65°	13.1	13.1	12.5	13.1	13.1
67.5°	10.3	10.3	10.3	10.9	10.3
70°	8.2	8.2	8.2	8.2	8.2
72.5°	5.4	6.0	6.0	6.0	5.4
75°	3.8	3.8	3.8	3.8	3.8
77.5°	1.6	1.6	2.2	1.6	1.6
80°	0.5	0.5	0.5	0.5	0.5
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)