

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: P328650

Luminaire Tested: **L815SQ10WF927MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P328650  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-290-20)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: L815SQ10WF927MB  
Description: Square Track 13x1, 1000lm, 60°, 2700K, black finish  
Light Source: (13) 2700K CCT, 92 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

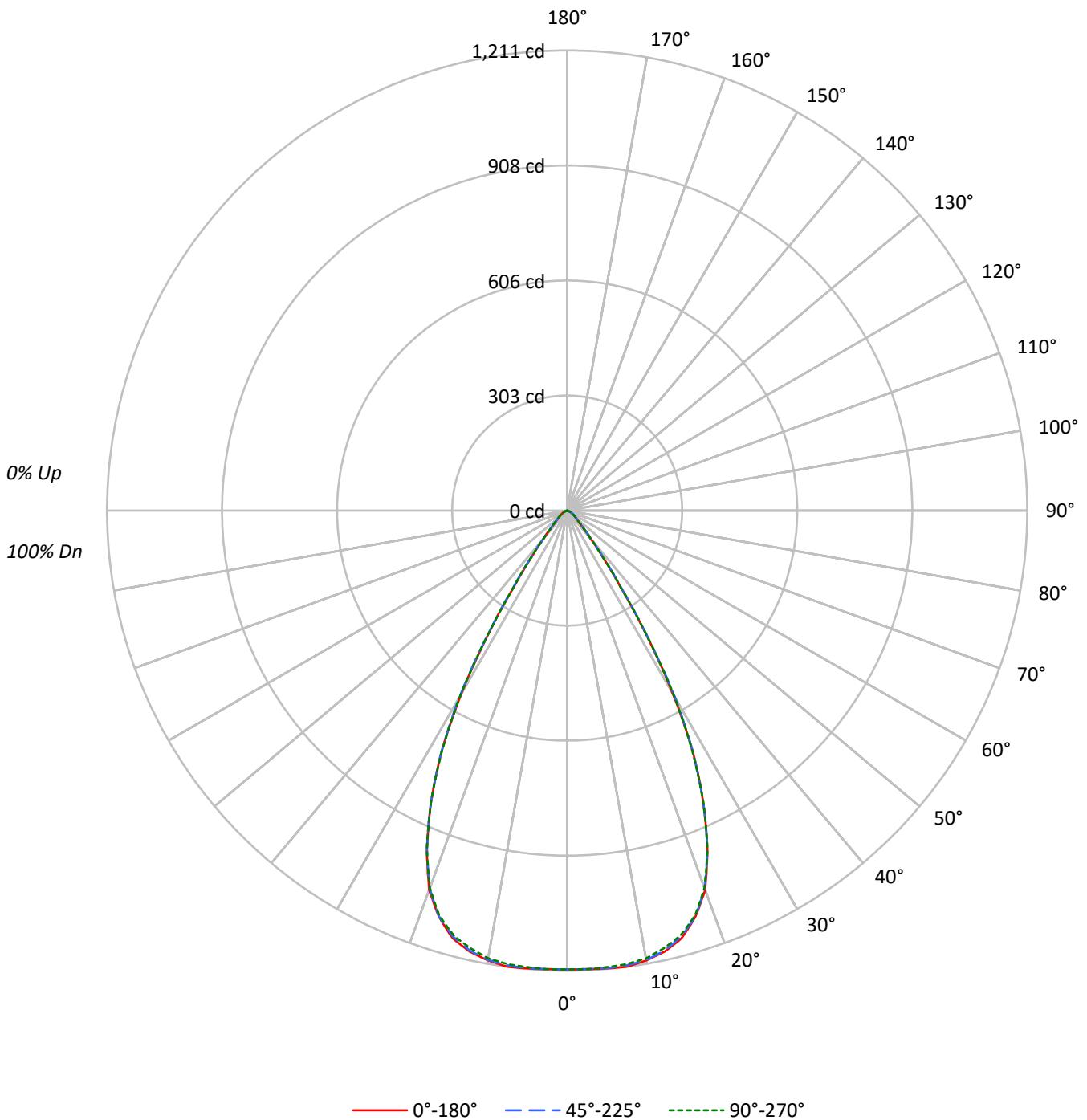
Lumens per Lamp: N/A  
Luminaire Lumens: 1063.0 lumens  
Efficiency: N/A  
Efficacy: 74.9 lumens/watt  
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.86  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

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: P328650  
CATALOG NUMBER: L815SQ10WF927MB

### Luminous Intensity Polar Plot





TEST NUMBER: P328650

CATALOG NUMBER: L815SQ10WF927MB

**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	111	108	106	111	109	106	105	105	103	101	101	100	98	98	96	95	94				94
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87				87
3	103	96	92	88	101	95	91	87	92	89	86	90	87	84	88	85	83	81				81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	78	76				76
5	93	85	79	75	91	84	79	75	82	77	74	80	76	73	79	75	73	71				71
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67				67
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63				63
8	80	71	65	61	79	71	65	61	69	64	61	68	64	61	68	63	60	59				59
9	77	67	62	58	76	67	61	58	66	61	57	65	60	57	64	60	57	56				56
10	73	64	58	54	72	63	58	54	63	58	54	62	57	54	61	57	54	53				53

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	116967	116967	116967
5°	117628	117580	117317
10°	118241	118132	117700
15°	116831	116390	116009
20°	109464	109062	108897
25°	90632	90750	90686
30°	62318	63661	62867
35°	28324	29164	28655
40°	12355	12621	12140
45°	6124	6809	6425
50°	4446	4687	4521
55°	3496	3682	3496
60°	2751	2964	2848
65°	2246	2132	2246
70°	1558	1558	1558
75°	823	823	823
80°	0	279	0
85°	0	0	0



TEST NUMBER: P328650

CATALOG NUMBER: L815SQ10WF927MB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.1	10.8
10°-20°	323.8	30.5
20°-30°	380.5	35.8
30°-40°	170.8	16.1
40°-50°	41.2	3.9
50°-60°	19.3	1.8
60°-70°	9.6	0.9
70°-80°	2.6	0.2
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°	819.5	77.1
0°-40°	990.3	93.2
0°-60°	1050.8	98.8
0°-90°	1063.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1063.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1207	1207	1207	1207	1207	
5°	1210	1210	1209	1208	1206	115
15°	1165	1160	1160	1159	1157	325
25°	848	851	849	847	848	380
35°	240	246	247	241	242	168
45°	45	49	50	49	47	40
55°	21	21	22	21	21	19
65°	10	10	9	10	10	10
75°	2	2	2	2	2	3
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P328650

CATALOG NUMBER: L815SQ10WF927MB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1207.4	1207.4	1207.4	1207.4	1207.4
2.5°	1208.0	1208.0	1208.0	1210.2	1208.0
5°	1209.6	1209.6	1209.1	1208.5	1206.4
7.5°	1210.7	1209.6	1206.9	1205.8	1203.6
10°	1202.0	1200.9	1200.9	1199.3	1196.5
12.5°	1188.4	1185.6	1185.6	1185.1	1179.6
15°	1164.9	1160.5	1160.5	1158.9	1156.7
17.5°	1121.8	1124.5	1120.7	1122.3	1118.0
20°	1061.8	1061.8	1057.9	1059.0	1056.3
22.5°	964.6	967.9	964.1	965.2	965.2
25°	847.9	850.6	849.0	847.3	848.4
27.5°	718.6	720.2	718.0	719.7	714.2
30°	557.1	569.6	569.1	570.7	562.0
32.5°	389.6	399.4	392.8	395.0	390.7
35°	239.5	246.1	246.6	241.2	242.3
37.5°	150.0	152.8	156.6	153.3	155.0
40°	97.7	97.1	99.8	99.3	96.0
42.5°	64.9	66.6	68.2	67.7	66.0
45°	44.7	48.6	49.7	48.6	46.9
47.5°	34.9	36.6	38.2	37.1	35.5
50°	29.5	30.0	31.1	30.0	30.0
52.5°	25.1	25.1	26.2	25.6	25.6
55°	20.7	21.3	21.8	21.3	20.7
57.5°	16.9	16.9	18.6	17.5	16.9
60°	14.2	14.2	15.3	14.2	14.7
62.5°	12.0	12.0	12.0	12.0	12.0
65°	9.8	9.8	9.3	9.8	9.8
67.5°	7.1	7.1	7.1	7.6	7.6
70°	5.5	5.5	5.5	5.5	5.5
72.5°	3.8	3.8	3.8	3.8	3.8
75°	2.2	2.2	2.2	2.2	2.2
77.5°	1.1	1.1	1.1	1.1	1.1
80°	0.0	0.0	0.5	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)