

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: P328658

Luminaire Tested: **L815SQ20FL927MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P328658  
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: L815SQ20FL927MB  
Description: Square Track 13x1, 2000lm, 37°, 2700K, black finish  
Light Source: (13) 2700K CCT, 92 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

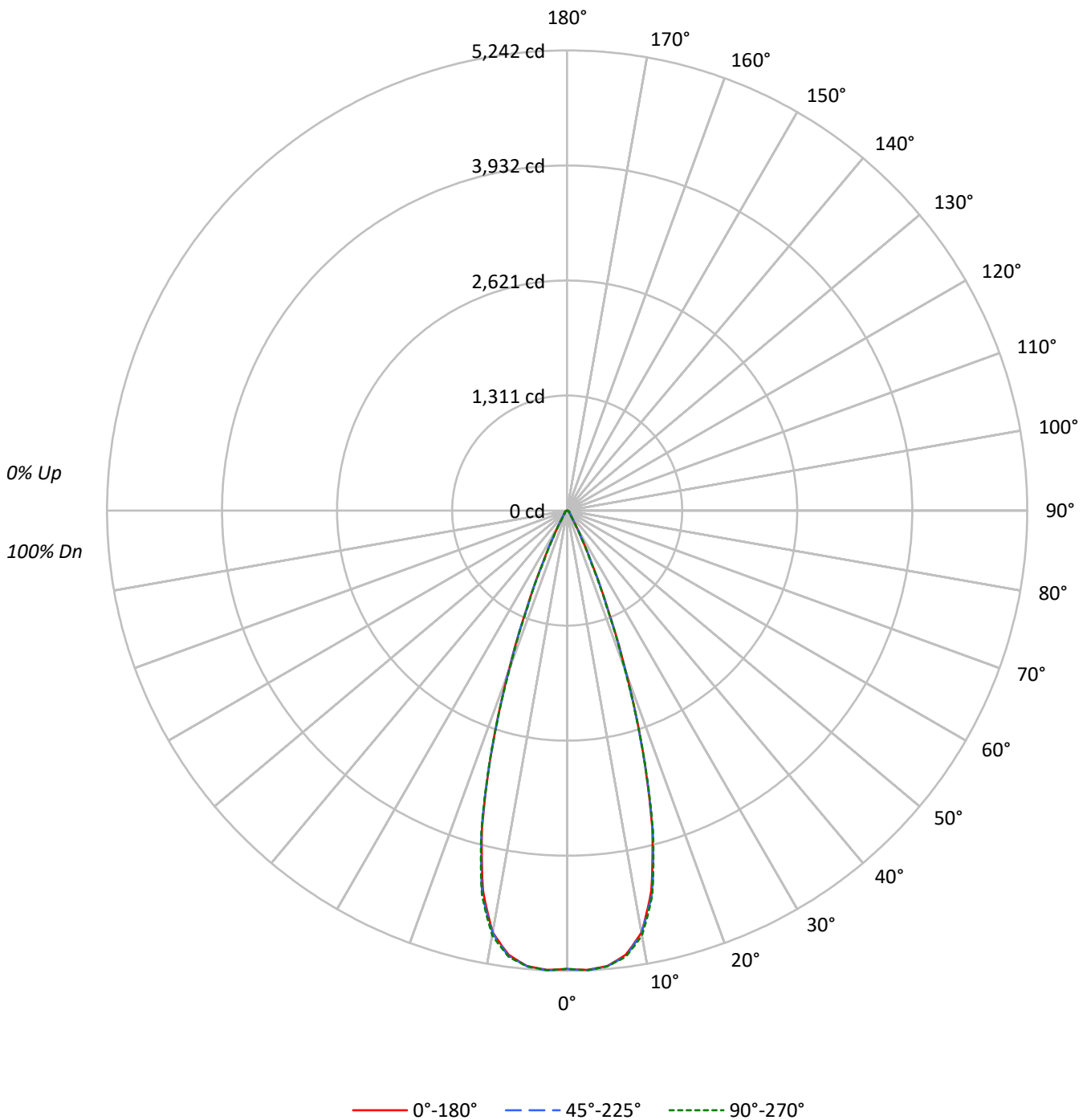
Lumens per Lamp: N/A  
Luminaire Lumens: 1969.0 lumens  
Efficiency: N/A  
Efficacy: 73.7 lumens/watt  
Spacing Criteria (0/90/45): 0.62 / 0.62 / 0.55  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96				
2	110	106	103	100	108	105	102	99	101	99	97	99	97	95	96	94	93	91				
3	106	101	97	94	104	100	96	93	97	94	92	95	92	90	93	91	89	88				
4	102	96	92	89	101	95	91	88	93	90	87	92	89	86	90	87	85	84				
5	99	92	88	84	97	92	87	84	90	86	83	88	85	83	87	84	82	81				
6	96	89	84	81	94	88	84	81	87	83	80	85	82	79	84	81	79	78				
7	92	85	81	77	91	85	80	77	84	80	77	83	79	77	82	78	76	75				
8	90	82	78	75	89	82	77	74	81	77	74	80	76	74	79	76	74	72				
9	87	79	75	72	86	79	75	72	78	74	72	77	74	71	77	73	71	70				
10	84	77	72	69	83	76	72	69	76	72	69	75	72	69	74	71	69	68				

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

	0°	45°	90°
0°	505932	505932	505932
5°	506600	506795	506989
10°	480193	480488	483340
15°	375536	378044	378746
20°	201258	200742	197134
25°	70131	70238	64786
30°	22484	22932	19800
35°	10171	10052	9225
40°	7082	6955	6450
45°	5480	5480	4932
50°	5275	5275	4973
55°	5236	5574	5067
60°	5038	5231	4844
65°	4585	4126	4355
70°	3399	3116	3399
75°	1871	1871	1871
80°	0	558	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	488.0	24.8
10°-20°	985.2	50.0
20°-30°	352.2	17.9
30°-40°	60.6	3.1
40°-50°	31.2	1.6
50°-60°	27.5	1.4
60°-70°	18.7	0.9
70°-80°	5.6	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°	1825.4	92.7
0°-40°	1886.0	95.8
0°-60°	1944.6	98.8
0°-90°	1969.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1969.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5222	5222	5222	5222	5222	
5°	5210	5214	5212	5222	5214	487
15°	3744	3774	3769	3778	3776	981
25°	656	672	657	639	606	355
35°	86	86	85	80	78	62
45°	40	39	40	37	36	32
55°	31	32	33	31	30	28
65°	20	20	18	19	19	19
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°	5222.5	5222.5	5222.5	5222.5	5222.5
2.5°	5237.5	5240.5	5242.5	5249.5	5239.5
5°	5209.5	5214.5	5211.5	5221.5	5213.5
7.5°	5104.5	5112.5	5119.5	5129.5	5124.5
10°	4881.5	4878.5	4884.5	4909.5	4913.5
12.5°	4433.4	4446.4	4475.4	4469.4	4488.4
15°	3744.4	3774.4	3769.4	3778.4	3776.4
17.5°	2857.3	2886.3	2851.3	2875.3	2869.3
20°	1952.2	1951.2	1947.2	1948.2	1912.2
22.5°	1199.1	1200.1	1177.1	1145.1	1162.1
25°	656.1	672.1	657.1	639.1	606.1
27.5°	341.0	357.0	361.0	339.0	333.0
30°	201.0	200.0	205.0	191.0	177.0
32.5°	122.0	123.0	128.0	117.0	113.0
35°	86.0	86.0	85.0	80.0	78.0
37.5°	68.0	69.0	67.0	64.0	62.0
40°	56.0	55.0	55.0	51.0	51.0
42.5°	46.0	45.0	45.0	42.0	41.0
45°	40.0	39.0	40.0	37.0	36.0
47.5°	37.0	36.0	37.0	34.0	34.0
50°	35.0	35.0	35.0	33.0	33.0
52.5°	34.0	33.0	34.0	32.0	32.0
55°	31.0	32.0	33.0	31.0	30.0
57.5°	28.0	28.0	30.0	28.0	27.0
60°	26.0	25.0	27.0	25.0	25.0
62.5°	24.0	23.0	23.0	22.0	23.0
65°	20.0	20.0	18.0	19.0	19.0
67.5°	15.0	16.0	14.0	15.0	15.0
70°	12.0	12.0	11.0	12.0	12.0
72.5°	8.0	9.0	8.0	9.0	8.0
75°	5.0	5.0	5.0	5.0	5.0
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)