

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: P328645

Luminaire Tested: **L815SQ10NF940MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P328645  
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: L815SQ10NF940MB  
Description: Square Track 13x1, 1000lm, 22°, 4000K, black finish  
Light Source: (13) 4000K CCT, 92 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

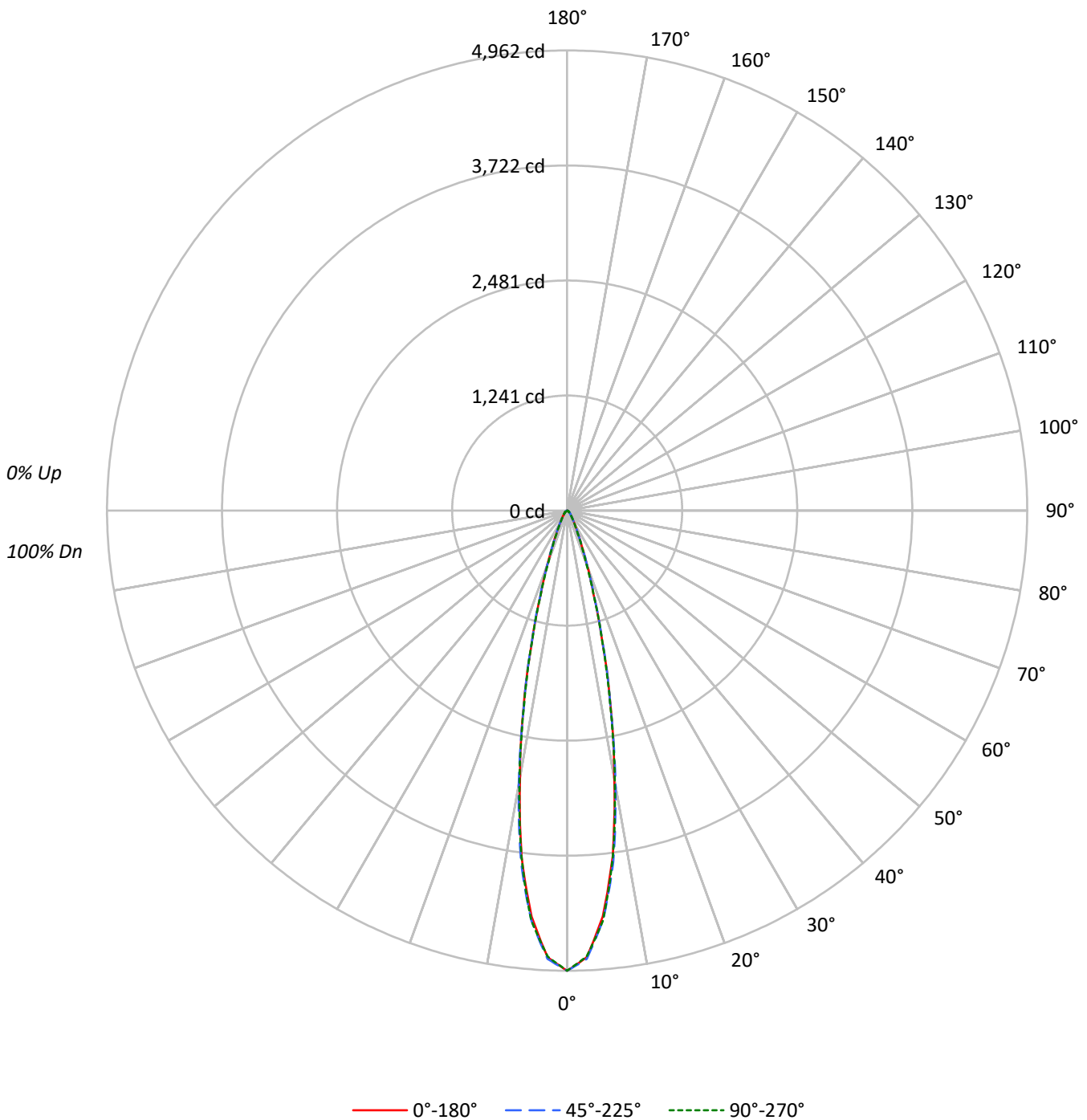
Lumens per Lamp: N/A  
Luminaire Lumens: 1063.0 lumens  
Efficiency: N/A  
Efficacy: 74.9 lumens/watt  
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.39  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

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



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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	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°	480677	480677	480677
5°	427423	431255	431692
10°	288627	295346	291736
15°	147832	148614	147771
20°	64412	64588	60753
25°	29267	29737	28315
30°	16153	16466	15784
35°	10443	10383	10182
40°	7309	7309	7234
45°	5713	5713	5631
50°	4778	4778	4687
55°	4037	4222	4037
60°	3546	3662	3546
65°	3049	2934	3049
70°	2351	2351	2351
75°	1460	1460	1460
80°	335	335	335
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	375.6	35.3
10°-20°	418.9	39.4
20°-30°	139.4	13.1
30°-40°	57.1	5.4
40°-50°	32.7	3.1
50°-60°	22.0	2.1
60°-70°	13.1	1.2
70°-80°	4.2	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°	933.9	87.9
0°-40°	991.0	93.2
0°-60°	1045.6	98.4
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°	4962	4962	4962	4962	4962	
5°	4395	4415	4435	4424	4439	373
15°	1474	1468	1482	1481	1473	417
25°	274	276	278	271	265	140
35°	88	88	88	86	86	57
45°	42	41	42	41	41	33
55°	24	24	25	24	24	22
65°	13	13	13	13	13	13
75°	4	4	4	4	4	4
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°	4961.8	4961.8	4961.8	4961.8	4961.8
2.5°	4821.3	4830.7	4838.5	4837.9	4814.1
5°	4395.3	4414.7	4434.7	4424.2	4439.2
7.5°	3759.9	3778.3	3819.4	3767.2	3775.5
10°	2934.1	2966.9	3002.4	2985.2	2965.7
12.5°	2171.5	2184.9	2159.3	2173.2	2141.6
15°	1474.0	1467.9	1481.8	1481.2	1473.4
17.5°	948.0	955.3	964.7	957.5	943.0
20°	624.8	621.5	626.5	610.9	589.3
22.5°	411.5	413.2	414.3	397.1	396.5
25°	273.8	276.0	278.2	271.0	264.9
27.5°	194.9	197.2	198.3	197.2	189.4
30°	144.4	147.7	147.2	143.3	141.1
32.5°	112.7	111.6	112.2	110.0	110.5
35°	88.3	88.3	87.8	85.5	86.1
37.5°	70.5	70.5	70.0	70.0	68.9
40°	57.8	57.8	57.8	57.2	57.2
42.5°	48.9	48.3	48.3	48.3	47.8
45°	41.7	41.1	41.7	41.1	41.1
47.5°	36.1	36.1	36.1	35.5	35.5
50°	31.7	31.7	31.7	31.1	31.1
52.5°	27.8	27.8	28.3	27.8	27.8
55°	23.9	24.4	25.0	24.4	23.9
57.5°	21.1	21.1	22.2	21.1	20.5
60°	18.3	18.3	18.9	18.3	18.3
62.5°	15.6	15.6	16.1	15.6	15.6
65°	13.3	13.3	12.8	13.3	13.3
67.5°	10.6	10.6	10.6	11.1	10.6
70°	8.3	8.3	8.3	8.3	8.3
72.5°	5.6	6.1	6.1	6.1	5.6
75°	3.9	3.9	3.9	3.9	3.9
77.5°	1.7	1.7	2.2	1.7	1.7
80°	0.6	0.6	0.6	0.6	0.6
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)