

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: P328701

Luminaire Tested: **L815SQ40FL940MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P328701  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-290-25)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: L815SQ40FL940MB  
Description: Square Track 26x1, 4000lm, 37°, 4000K, black finish  
Light Source: (26) 4000K CCT, 92 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

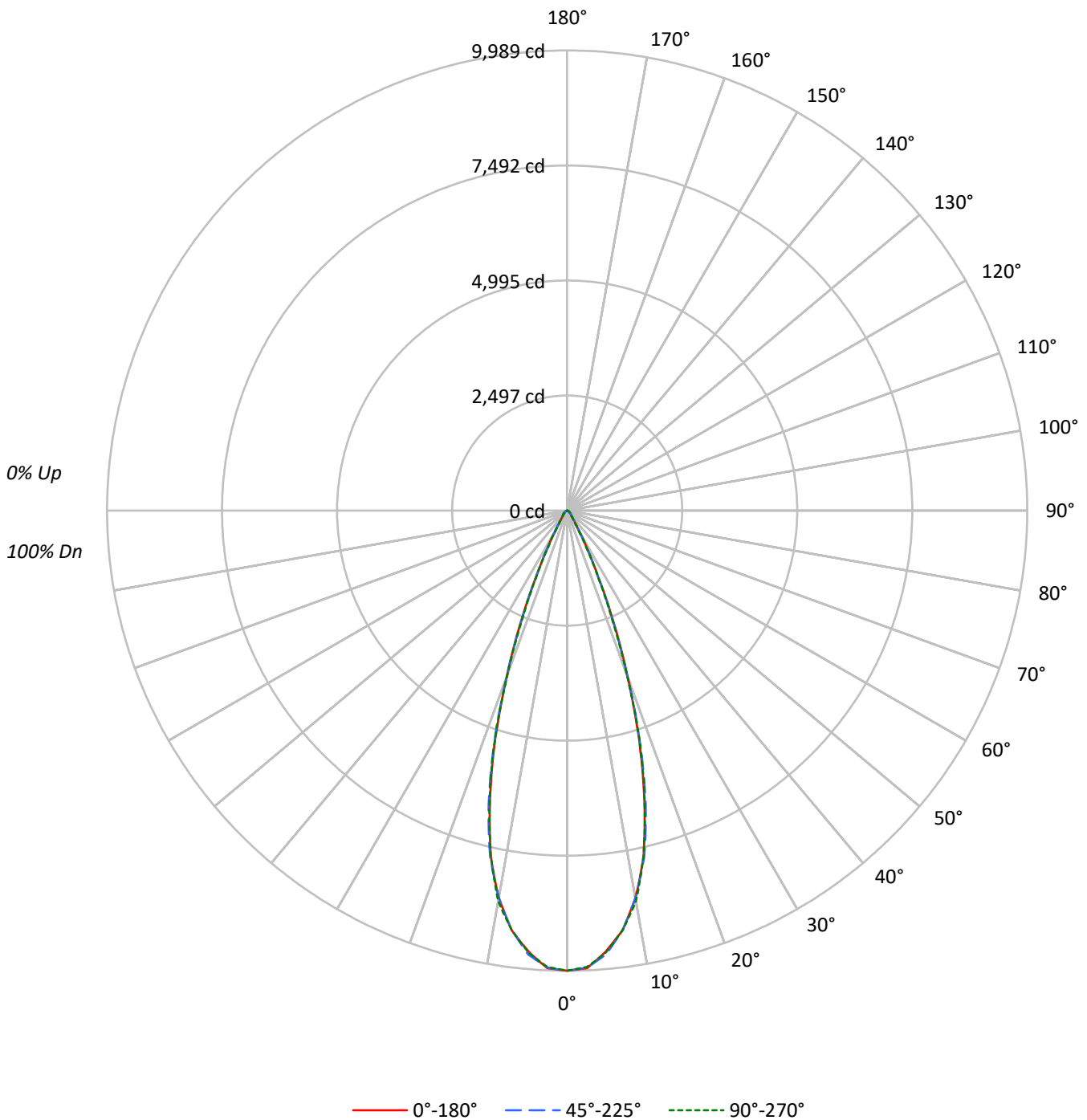
Lumens per Lamp: N/A  
Luminaire Lumens: 3792.0 lumens  
Efficiency: N/A  
Efficacy: 72.9 lumens/watt  
Spacing Criteria (0/90/45): 0.59 / 0.6 / 0.56  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 52  
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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95					95			
2	110	106	102	100	108	104	101	99	101	99	96	98	96	94	95	94	92	91					91			
3	106	100	96	93	104	99	95	92	97	93	91	94	92	89	92	90	88	87					87			
4	102	96	91	88	100	95	90	87	93	89	86	91	88	85	89	86	84	83					83			
5	98	91	87	83	97	90	86	83	89	85	82	87	84	81	86	83	81	79					79			
6	95	87	83	79	93	87	82	79	85	81	78	84	81	78	83	80	77	76					76			
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	74	73					73			
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71					71			
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68					68			
10	83	75	70	67	82	75	70	67	74	70	67	73	70	67	73	69	67	66					66			

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

	0°	45°	90°
0°	967679	967679	967679
5°	934480	940529	936270
10°	839951	840059	846679
15°	649055	660819	652224
20°	394144	394247	390567
25°	172125	171249	170265
30°	61032	65137	58179
35°	26538	27614	26053
40°	17793	17932	18185
45°	15235	14673	15646
50°	13519	11831	13835
55°	12059	10505	12397
60°	10463	9087	10463
65°	7473	7473	7473
70°	5778	5212	5495
75°	3069	3069	3069
80°	558	558	558
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	886.5	23.4
10°-20°	1746.5	46.1
20°-30°	804.3	21.2
30°-40°	166.6	4.4
40°-50°	85.7	2.3
50°-60°	60.9	1.6
60°-70°	32.6	0.9
70°-80°	8.7	0.2
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°	3437.4	90.6
0°-40°	3603.9	95.0
0°-60°	3750.5	98.9
0°-90°	3792.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3792.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9989	9989	9989	9989	9989	
5°	9610	9682	9672	9665	9628	885
15°	6472	6508	6589	6529	6503	1738
25°	1610	1606	1602	1576	1593	810
35°	224	230	234	226	220	165
45°	111	109	107	111	114	87
55°	71	68	62	69	73	64
65°	33	31	33	31	33	34
75°	8	7	8	7	8	9
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°	9988.9	9988.9	9988.9	9988.9	9988.9
2.5°	9943.0	9944.0	9928.7	9924.6	9914.4
5°	9609.5	9681.9	9671.7	9664.6	9627.9
7.5°	9193.4	9191.4	9188.3	9192.4	9190.4
10°	8538.7	8538.7	8539.8	8567.3	8607.1
12.5°	7677.0	7670.9	7717.8	7722.9	7659.7
15°	6471.6	6508.3	6588.9	6528.7	6503.2
17.5°	5178.5	5231.5	5247.9	5194.8	5220.3
20°	3823.2	3802.8	3824.2	3834.4	3788.5
22.5°	2640.2	2610.7	2620.9	2568.9	2541.3
25°	1610.3	1606.2	1602.1	1575.6	1592.9
27.5°	951.5	970.8	966.8	950.4	892.3
30°	545.6	562.9	582.3	555.8	520.1
32.5°	341.6	341.6	354.9	337.6	321.2
35°	224.4	229.5	233.5	226.4	220.3
37.5°	171.3	170.3	172.3	172.3	169.3
40°	140.7	140.7	141.8	142.8	143.8
42.5°	123.4	121.4	123.4	125.4	127.5
45°	111.2	109.1	107.1	111.2	114.2
47.5°	99.9	97.9	91.8	98.9	103.0
50°	89.7	86.7	78.5	88.7	91.8
52.5°	79.5	77.5	69.3	79.5	82.6
55°	71.4	68.3	62.2	69.3	73.4
57.5°	62.2	60.2	55.1	60.2	63.2
60°	54.0	51.0	46.9	51.0	54.0
62.5°	42.8	41.8	39.8	40.8	42.8
65°	32.6	30.6	32.6	30.6	32.6
67.5°	26.5	23.5	26.5	23.5	25.5
70°	20.4	18.4	18.4	17.3	19.4
72.5°	12.2	12.2	12.2	12.2	12.2
75°	8.2	7.1	8.2	7.1	8.2
77.5°	4.1	4.1	3.1	3.1	4.1
80°	1.0	1.0	1.0	1.0	1.0
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)