

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: P328705

Luminaire Tested: **L815SQ40NF940MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P328705  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-290-24)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: L815SQ40NF940MB  
Description: Square Track 26x1, 4000lm, 22°, 4000K, black finish  
Light Source: (26) 4000K CCT, 92 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

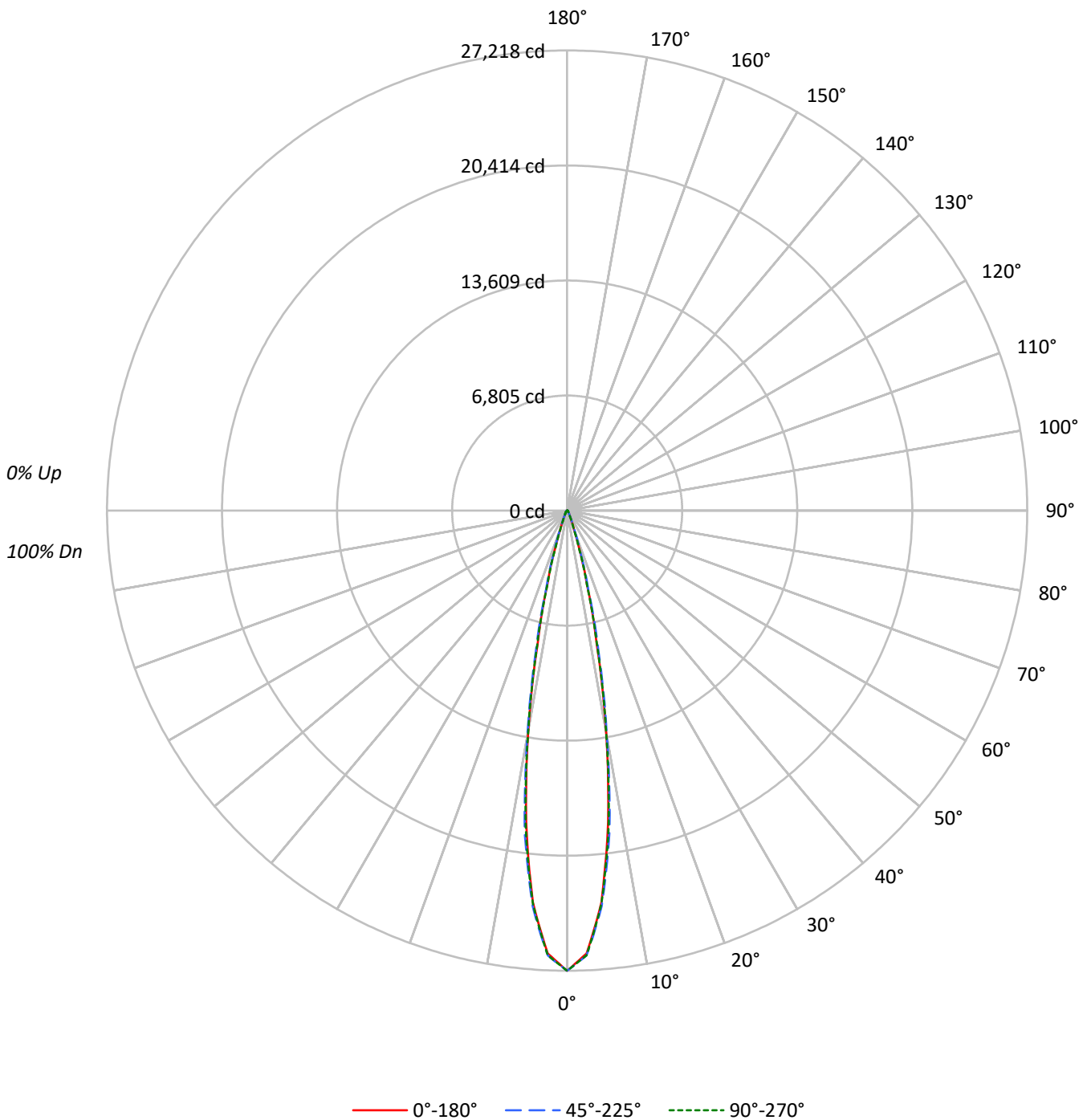
Lumens per Lamp: N/A  
Luminaire Lumens: 3886.0 lumens  
Efficiency: N/A  
Efficacy: 74.7 lumens/watt  
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.33  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

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	100	100	100	100	100		
1	115	113	111	110	113	111	109	108	107	106	105	103	102	101	100	99	99	97	97	97	97	97	97	97		
2	112	108	105	103	110	106	104	102	103	101	100	101	99	97	98	97	95	94	94	94	94	94	94	94		
3	108	104	100	98	107	103	99	97	100	98	95	98	96	94	96	94	93	91	91	91	91	91	91	91		
4	105	100	97	94	104	99	96	93	97	94	92	95	93	91	94	92	90	89	89	89	89	89	89	89		
5	103	97	93	90	101	96	93	90	95	92	89	93	91	89	92	90	88	87	87	87	87	87	87	87		
6	100	94	91	88	99	94	90	87	92	89	87	91	88	86	90	88	86	85	85	85	85	85	85	85		
7	98	92	88	85	97	91	88	85	90	87	85	89	86	84	88	86	84	83	83	83	83	83	83	83		
8	96	90	86	83	95	89	86	83	88	85	83	88	85	83	87	84	82	81	81	81	81	81	81	81		
9	94	88	84	82	93	87	84	81	87	83	81	86	83	81	85	83	81	80	80	80	80	80	80	80		
10	92	86	82	80	91	85	82	80	85	82	80	84	81	79	84	81	79	78	78	78	78	78	78	78		

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

	0°	45°	90°
0°	2636746	2636746	2636746
5°	2260481	2282400	2268620
10°	1303844	1334545	1308064
15°	458900	487644	451739
20°	123443	145639	123443
25°	47203	51019	44808
30°	27608	26813	26701
35°	19537	19419	20140
40°	13797	13152	15087
45°	12015	11179	12440
50°	10761	10912	11831
55°	9999	8445	9999
60°	9494	9087	10482
65°	8894	10292	7954
70°	4900	5212	8384
75°	5352	4192	3818
80°	1116	0	0
85°	0	2223	10226



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1910.9	49.2
10°-20°	1457.9	37.5
20°-30°	247.2	6.4
30°-40°	101.9	2.6
40°-50°	68.4	1.8
50°-60°	52.1	1.3
60°-70°	34.6	0.9
70°-80°	9.9	0.3
80°-90°	3.2	0.1
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°	3616.0	93.1
0°-40°	3717.9	95.7
0°-60°	3838.3	98.8
0°-90°	3886.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3886.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	27218	27218	27218	27218	27218	
5°	23245	23354	23470	23455	23329	1890
15°	4576	4700	4862	4730	4504	1412
25°	442	450	477	443	419	238
35°	165	164	164	159	170	101
45°	88	78	82	86	91	68
55°	59	59	50	55	59	52
65°	39	41	45	41	35	32
75°	14	12	11	15	10	9
85°	0	1	2	0	9	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	27217.9	27217.9	27217.9	27217.9	27217.9
2.5°	26219.4	26276.5	26338.7	26276.5	26330.5
5°	23245.1	23354.3	23470.5	23455.2	23328.8
7.5°	18556.3	18849.1	19210.1	18853.1	18809.3
10°	13254.5	13506.5	13566.6	13433.0	13297.4
12.5°	8139.4	8473.9	8591.2	8507.6	8246.5
15°	4575.6	4700.0	4862.2	4729.6	4504.2
17.5°	2390.8	2504.0	2658.0	2513.2	2267.4
20°	1197.4	1315.8	1412.7	1297.4	1197.4
22.5°	669.1	708.9	792.5	678.3	627.3
25°	441.6	449.8	477.3	442.7	419.2
27.5°	322.3	321.3	324.4	308.0	307.0
30°	246.8	246.8	239.7	237.7	238.7
32.5°	190.7	193.8	192.8	195.8	197.9
35°	165.2	164.2	164.2	159.1	170.3
37.5°	122.4	126.5	127.5	120.4	133.6
40°	109.1	106.1	104.0	115.3	119.3
42.5°	92.8	98.9	98.9	103.0	105.1
45°	87.7	78.5	81.6	85.7	90.8
47.5°	80.6	77.5	74.5	84.7	82.6
50°	71.4	73.4	72.4	74.5	78.5
52.5°	68.3	69.4	63.2	65.3	73.4
55°	59.2	59.2	50.0	55.1	59.2
57.5°	45.9	50.0	40.8	55.1	49.0
60°	49.0	49.0	46.9	53.0	54.1
62.5°	36.7	44.9	44.9	49.0	45.9
65°	38.8	40.8	44.9	40.8	34.7
67.5°	21.4	15.3	16.3	20.4	24.5
70°	17.3	24.5	18.4	18.4	29.6
72.5°	5.1	10.2	9.2	5.1	3.1
75°	14.3	12.2	11.2	15.3	10.2
77.5°	5.1	10.2	7.1	1.0	12.2
80°	2.0	2.0	0.0	0.0	0.0
82.5°	7.1	3.1	4.1	1.0	12.2
85°	0.0	1.0	2.0	0.0	9.2
87.5°	2.0	3.1	10.2	5.1	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)