

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: P328713

Luminaire Tested: **L815SQ40WF940MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P328713  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-290-26)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: L815SQ40WF940MB  
Description: Square Track 26x1, 4000lm, 60°, 4000K, black finish  
Light Source: (26) 4000K CCT, 92 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

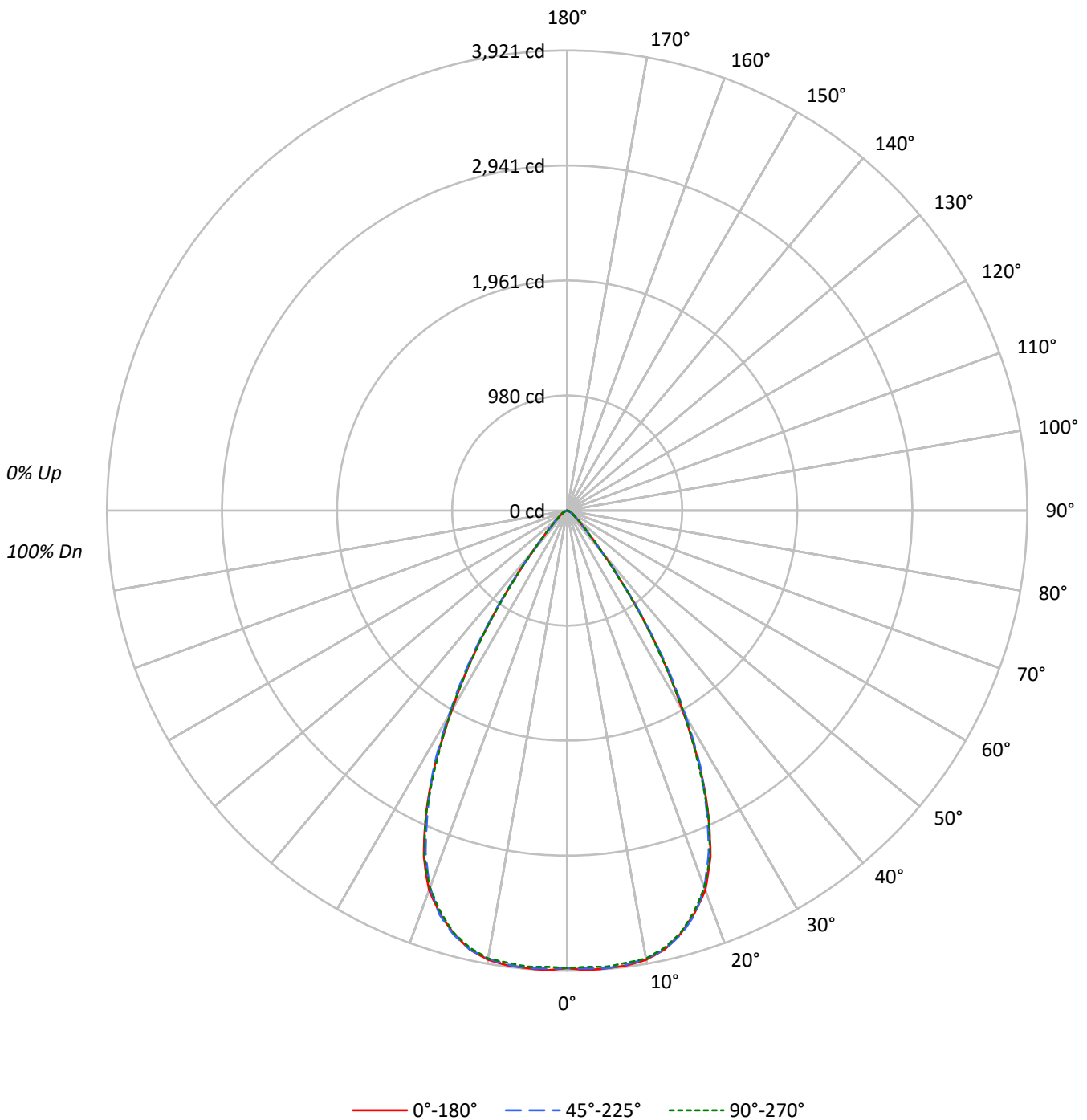
Lumens per Lamp: N/A  
Luminaire Lumens: 3667.0 lumens  
Efficiency: N/A  
Efficacy: 70.5 lumens/watt  
Spacing Criteria (0/90/45): 0.97 / 0.97 / 0.89  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

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	113	111	108	106	111	109	106	104	104	103	101	101	99	98	97	96	95	93					93			
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87					87			
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81					81			
4	97	90	84	80	95	89	83	79	86	82	79	84	81	78	83	79	77	75					75			
5	92	84	78	74	91	83	78	74	81	77	73	80	75	72	78	74	72	70					70			
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	66					66			
7	83	74	68	64	82	74	68	64	72	67	63	71	66	63	70	66	63	61					61			
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58					58			
9	76	66	60	56	75	66	60	56	65	59	56	64	59	56	63	59	55	54					54			
10	72	62	57	53	71	62	57	53	61	56	53	60	56	52	60	55	52	51					51			

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

	0°	45°	90°
0°	377649	377649	377649
5°	380677	380677	379394
10°	382275	381370	381272
15°	374293	375115	373781
20°	354783	352257	352360
25°	303964	300575	303632
30°	220312	225447	222024
35°	133649	135577	131485
40°	59209	58046	57275
45°	26976	25428	27524
50°	16292	15222	16292
55°	11721	10860	11721
60°	9494	8506	9281
65°	7014	7014	7014
70°	5495	4900	5495
75°	3069	3069	3069
80°	558	558	558
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	372.1	10.1
10°-20°	1043.1	28.4
20°-30°	1271.0	34.7
30°-40°	706.1	19.3
40°-50°	172.1	4.7
50°-60°	63.0	1.7
60°-70°	30.5	0.8
70°-80°	9.0	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°	2686.2	73.3
0°-40°	3392.3	92.5
0°-60°	3627.4	98.9
0°-90°	3667.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3667.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3898	3898	3898	3898	3898	
5°	3915	3908	3915	3910	3901	373
15°	3732	3726	3740	3742	3727	1044
25°	2844	2854	2812	2840	2841	1274
35°	1130	1106	1146	1100	1112	708
45°	197	196	186	198	201	175
55°	69	68	64	68	69	64
65°	31	29	31	29	31	32
75°	8	8	8	8	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°	3898.3	3898.3	3898.3	3898.3	3898.3
2.5°	3920.7	3896.3	3905.4	3910.5	3891.2
5°	3914.6	3907.5	3914.6	3909.5	3901.4
7.5°	3908.5	3907.5	3901.4	3898.3	3886.1
10°	3886.1	3873.8	3876.9	3877.9	3875.9
12.5°	3832.0	3823.8	3832.0	3827.9	3816.7
15°	3732.0	3725.9	3740.2	3742.2	3726.9
17.5°	3601.5	3585.2	3611.7	3608.6	3587.2
20°	3441.4	3412.8	3416.9	3429.1	3417.9
22.5°	3191.5	3181.3	3152.7	3168.0	3183.3
25°	2843.7	2853.9	2812.0	2839.6	2840.6
27.5°	2439.8	2433.6	2457.1	2438.7	2412.2
30°	1969.5	1962.4	2015.4	1996.1	1984.8
32.5°	1545.2	1514.6	1589.1	1527.9	1529.9
35°	1130.1	1105.6	1146.4	1100.5	1111.8
37.5°	736.4	719.1	751.7	727.2	733.4
40°	468.2	455.9	459.0	466.1	452.9
42.5°	292.7	290.7	279.5	293.7	293.7
45°	196.9	195.8	185.6	197.9	200.9
47.5°	142.8	140.8	133.6	142.8	142.8
50°	108.1	108.1	101.0	107.1	108.1
52.5°	84.7	84.7	79.6	84.7	84.7
55°	69.4	68.3	64.3	68.3	69.4
57.5°	57.1	56.1	53.0	56.1	58.1
60°	49.0	46.9	43.9	46.9	47.9
62.5°	38.8	37.7	36.7	37.7	38.8
65°	30.6	28.6	30.6	28.6	30.6
67.5°	24.5	23.5	24.5	23.5	24.5
70°	19.4	18.4	17.3	17.3	19.4
72.5°	13.3	12.2	12.2	12.2	13.3
75°	8.2	8.2	8.2	8.2	8.2
77.5°	4.1	4.1	4.1	4.1	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)