

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: P328710

Luminaire Tested: **L815SQ40WF927MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P328710
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: L815SQ40WF927MB
Description: Square Track 26x1, 4000lm, 60°, 2700K, black finish
Light Source: (26) 2700K CCT, 92 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

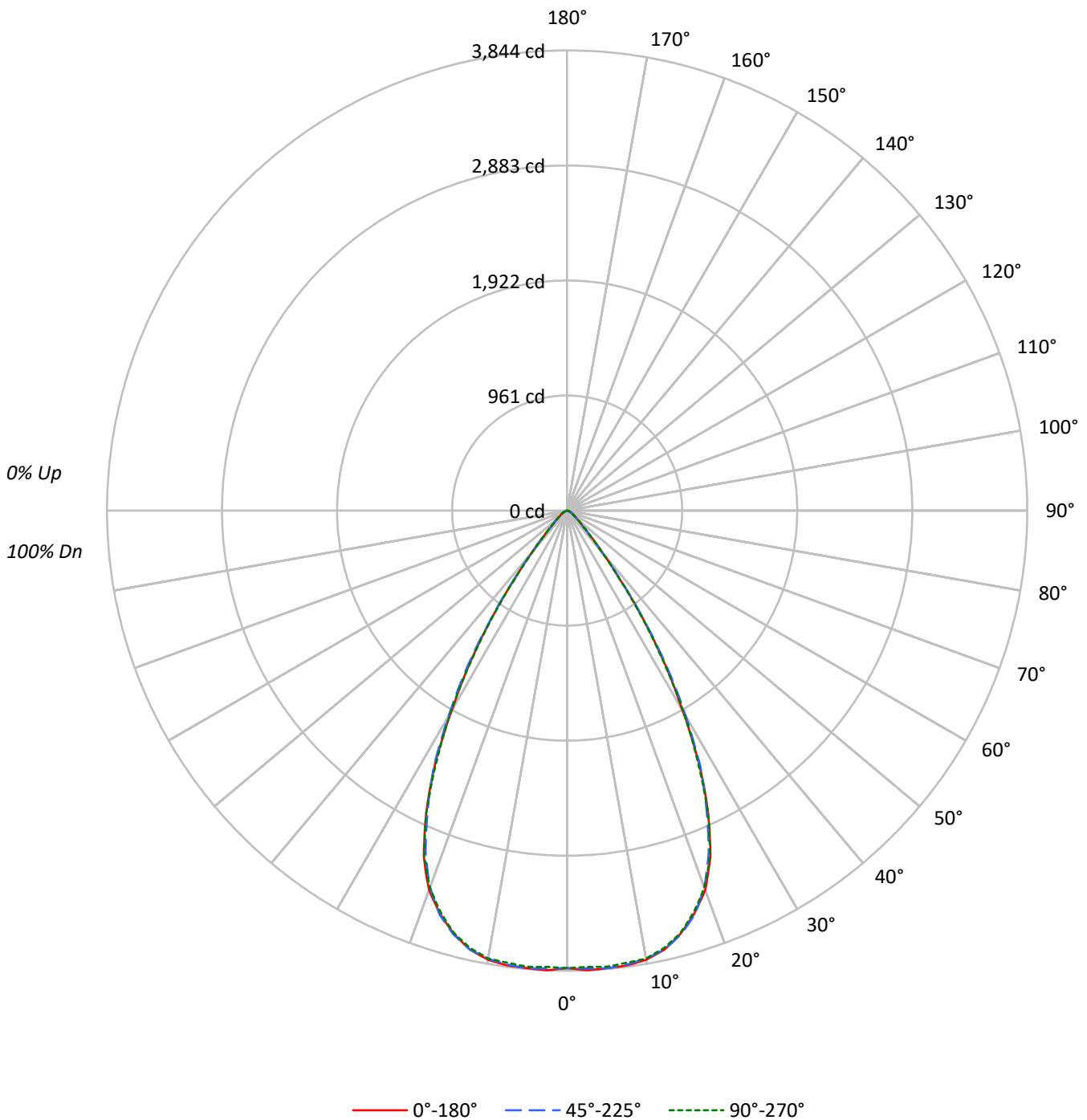
Lumens per Lamp: N/A
Luminaire Lumens: 3595.0 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Spacing Criteria (0/90/45): 0.97 / 0.97 / 0.89
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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	67	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°	370239	370239	370239
5°	373209	373209	371945
10°	374770	373884	373786
15°	366951	367754	366450
20°	347814	345340	345443
25°	297989	294675	297668
30°	215995	221028	217672
35°	131024	132916	128895
40°	58046	56908	56149
45°	26441	24934	26990
50°	15975	14920	15975
55°	11485	10641	11485
60°	9300	8331	9106
65°	6877	6877	6877
70°	5382	4815	5382
75°	2994	2994	2994
80°	558	558	558
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.8	10.1
10°-20°	1022.6	28.4
20°-30°	1246.0	34.7
30°-40°	692.2	19.3
40°-50°	168.7	4.7
50°-60°	61.7	1.7
60°-70°	29.9	0.8
70°-80°	8.8	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°	2633.5	73.3
0°-40°	3325.7	92.5
0°-60°	3556.2	98.9
0°-90°	3595.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3595.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3822	3822	3822	3822	3822	
5°	3838	3831	3838	3833	3825	366
15°	3659	3653	3667	3669	3654	1024
25°	2788	2798	2757	2784	2785	1249
35°	1108	1084	1124	1079	1090	694
45°	193	192	182	194	197	171
55°	68	67	63	67	68	63
65°	30	28	30	28	30	31
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°	3821.8	3821.8	3821.8	3821.8	3821.8
2.5°	3843.8	3819.8	3828.8	3833.8	3814.8
5°	3837.8	3830.8	3837.8	3832.8	3824.8
7.5°	3831.8	3830.8	3824.8	3821.8	3809.8
10°	3809.8	3797.8	3800.8	3801.8	3799.8
12.5°	3756.8	3748.8	3756.8	3752.8	3741.8
15°	3658.8	3652.8	3666.8	3668.8	3653.8
17.5°	3530.8	3514.8	3540.8	3537.8	3516.8
20°	3373.8	3345.8	3349.8	3361.8	3350.8
22.5°	3128.8	3118.8	3090.8	3105.8	3120.8
25°	2787.8	2797.8	2756.8	2783.8	2784.8
27.5°	2391.8	2385.8	2408.8	2390.8	2364.8
30°	1930.9	1923.9	1975.9	1956.9	1945.9
32.5°	1514.9	1484.9	1557.9	1497.9	1499.9
35°	1107.9	1083.9	1123.9	1078.9	1089.9
37.5°	722.0	705.0	737.0	713.0	719.0
40°	459.0	447.0	450.0	457.0	444.0
42.5°	287.0	285.0	274.0	288.0	288.0
45°	193.0	192.0	182.0	194.0	197.0
47.5°	140.0	138.0	131.0	140.0	140.0
50°	106.0	106.0	99.0	105.0	106.0
52.5°	83.0	83.0	78.0	83.0	83.0
55°	68.0	67.0	63.0	67.0	68.0
57.5°	56.0	55.0	52.0	55.0	57.0
60°	48.0	46.0	43.0	46.0	47.0
62.5°	38.0	37.0	36.0	37.0	38.0
65°	30.0	28.0	30.0	28.0	30.0
67.5°	24.0	23.0	24.0	23.0	24.0
70°	19.0	18.0	17.0	17.0	19.0
72.5°	13.0	12.0	12.0	12.0	13.0
75°	8.0	8.0	8.0	8.0	8.0
77.5°	4.0	4.0	4.0	4.0	4.0
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)