

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: P328683

Luminaire Tested: **L815SQ30NF930MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P328683
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: L815SQ30NF930MB
Description: Square Track 26x1, 3000lm, 22°, 3000K, black finish
Light Source: (26) 3000K CCT, 92 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

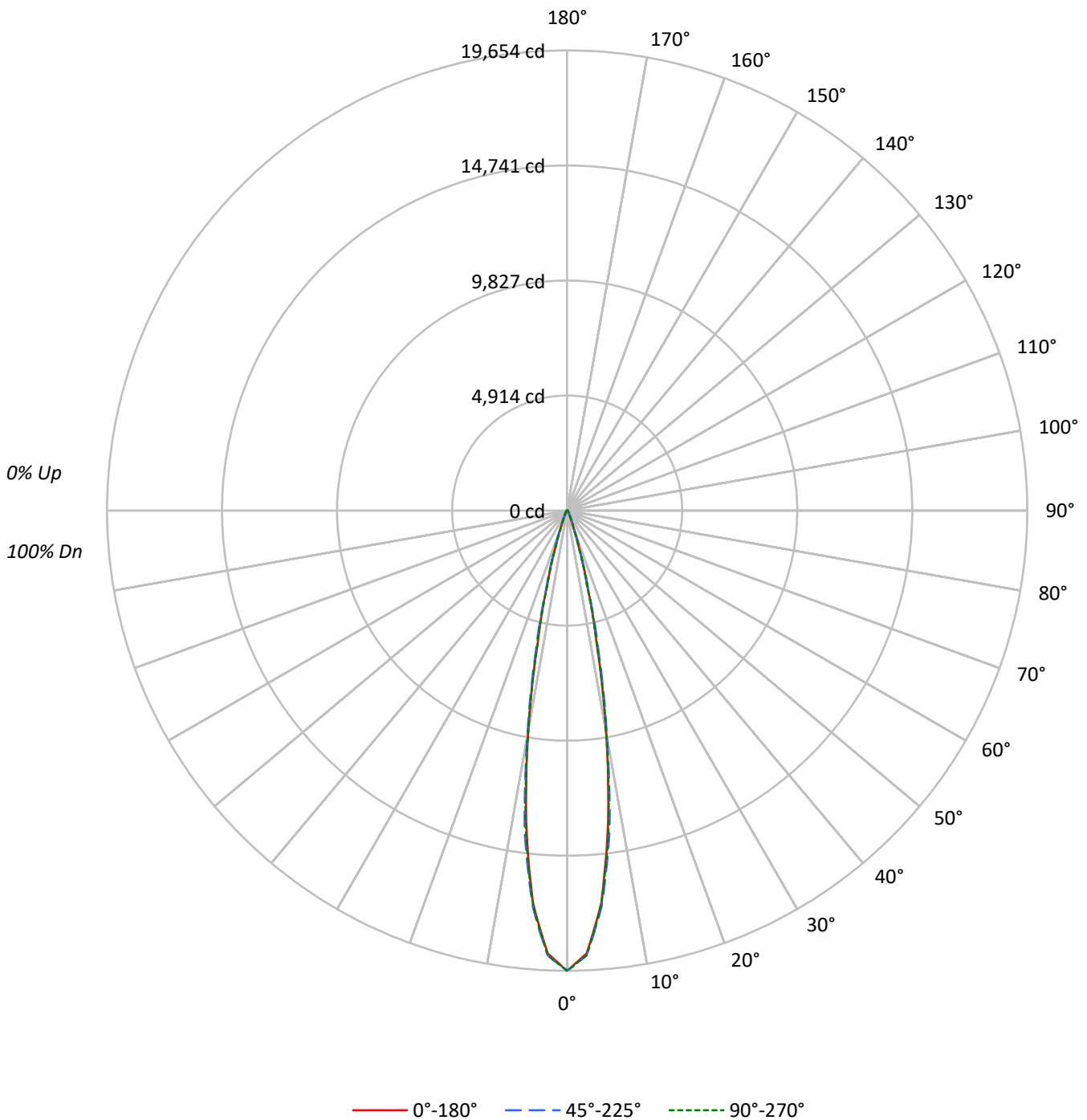
Lumens per Lamp: N/A
Luminaire Lumens: 2806.0 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.33
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 34
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°	1903941	1903941	1903941
5°	1632246	1648077	1638120
10°	941479	963651	944518
15°	331357	352118	326192
20°	89144	105165	89144
25°	34087	36845	32356
30°	19934	19363	19274
35°	14109	14026	14546
40°	9965	9497	10901
45°	8672	8069	8974
50°	7777	7882	8545
55°	7212	6097	7212
60°	6859	6568	7556
65°	6418	7427	5731
70°	3541	3767	6061
75°	3855	3032	2770
80°	837	0	0
85°	0	1667	7336



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1379.8	49.2
10°-20°	1052.7	37.5
20°-30°	178.5	6.4
30°-40°	73.6	2.6
40°-50°	49.4	1.8
50°-60°	37.6	1.3
60°-70°	25.0	0.9
70°-80°	7.2	0.3
80°-90°	2.3	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°	2611.0	93.1
0°-40°	2684.6	95.7
0°-60°	2771.6	98.8
0°-90°	2806.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2806.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19654	19654	19654	19654	19654	
5°	16785	16864	16948	16936	16845	1365
15°	3304	3394	3511	3415	3252	1019
25°	319	325	345	320	303	172
35°	119	119	119	115	123	73
45°	63	57	59	62	66	49
55°	43	43	36	40	43	38
65°	28	30	32	30	25	23
75°	10	9	8	11	7	7
85°	0	1	2	0	7	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	19653.5	19653.5	19653.5	19653.5	19653.5
2.5°	18932.5	18973.7	19018.6	18973.7	19012.7
5°	16784.8	16863.6	16947.6	16936.5	16845.2
7.5°	13399.1	13610.5	13871.2	13613.5	13581.8
10°	9570.8	9752.7	9796.2	9699.7	9601.7
12.5°	5877.3	6118.8	6203.5	6143.1	5954.6
15°	3303.9	3393.8	3510.9	3415.1	3252.4
17.5°	1726.4	1808.1	1919.3	1814.7	1637.2
20°	864.7	950.1	1020.1	936.8	864.7
22.5°	483.1	511.9	572.3	489.8	452.9
25°	318.9	324.8	344.7	319.6	302.7
27.5°	232.7	232.0	234.2	222.4	221.7
30°	178.2	178.2	173.1	171.6	172.3
32.5°	137.7	139.9	139.2	141.4	142.9
35°	119.3	118.6	118.6	114.9	123.0
37.5°	88.4	91.3	92.1	86.9	96.5
40°	78.8	76.6	75.1	83.2	86.2
42.5°	67.0	71.4	71.4	74.4	75.9
45°	63.3	56.7	58.9	61.9	65.5
47.5°	58.2	56.0	53.8	61.1	59.7
50°	51.6	53.0	52.3	53.8	56.7
52.5°	49.3	50.1	45.7	47.1	53.0
55°	42.7	42.7	36.1	39.8	42.7
57.5°	33.1	36.1	29.5	39.8	35.4
60°	35.4	35.4	33.9	38.3	39.0
62.5°	26.5	32.4	32.4	35.4	33.1
65°	28.0	29.5	32.4	29.5	25.0
67.5°	15.5	11.0	11.8	14.7	17.7
70°	12.5	17.7	13.3	13.3	21.4
72.5°	3.7	7.4	6.6	3.7	2.2
75°	10.3	8.8	8.1	11.0	7.4
77.5°	3.7	7.4	5.2	0.7	8.8
80°	1.5	1.5	0.0	0.0	0.0
82.5°	5.2	2.2	2.9	0.7	8.8
85°	0.0	0.7	1.5	0.0	6.6
87.5°	1.5	2.2	7.4	3.7	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)