

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: P328686

Luminaire Tested: **L815SQ30SP927MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P328686
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-290-23)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L815SQ30SP927MB
Description: Square Track 26x1, 3000lm, 15°, 2700K, black finish
Light Source: (26) 2700K CCT, 92 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

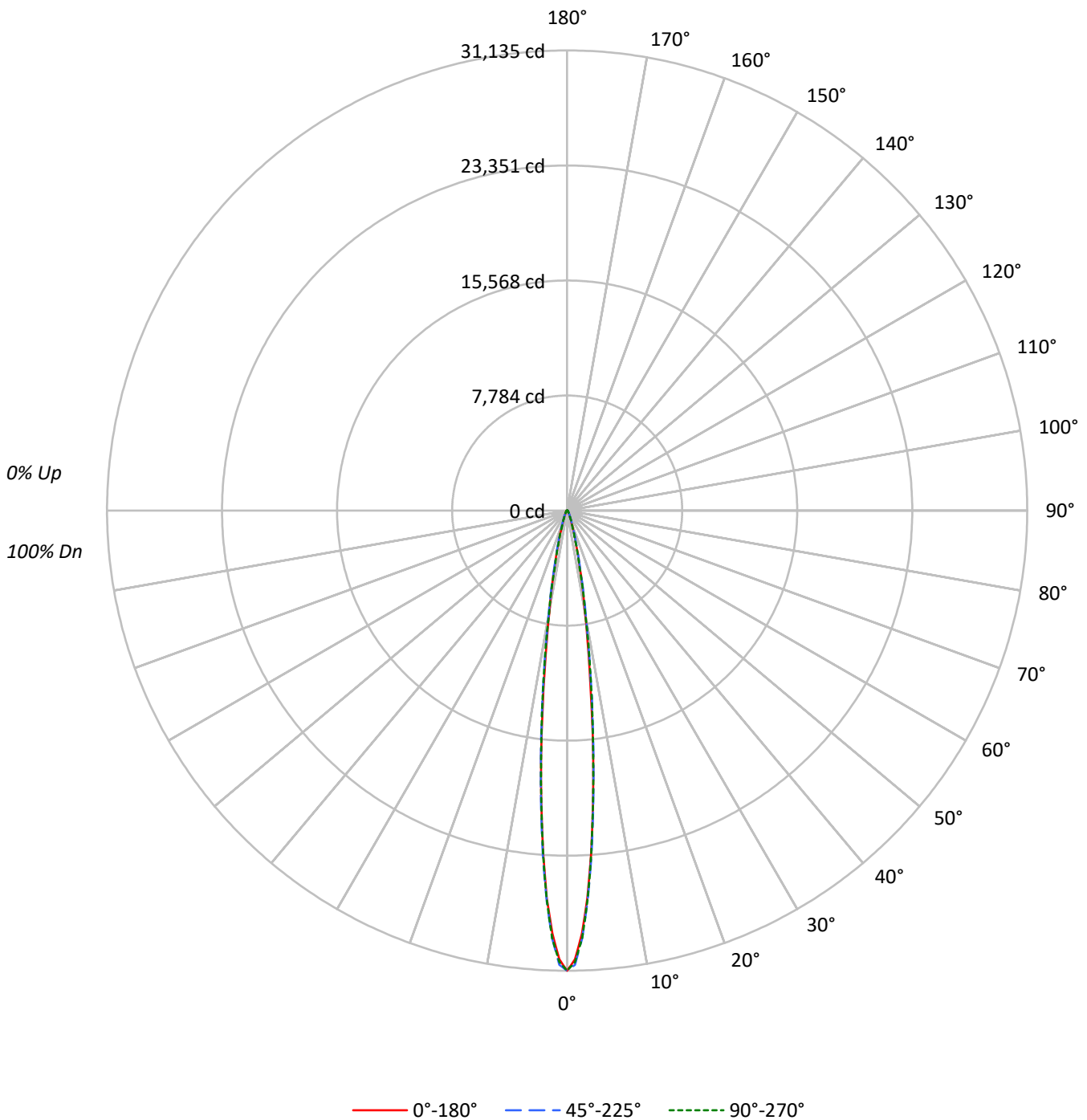
Lumens per Lamp: N/A
Luminaire Lumens: 2744.0 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.24
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	97
2	111	108	105	102	109	106	103	101	103	101	99	100	98	97	97	96	95	93
3	108	103	100	97	106	102	99	96	99	97	94	97	95	93	95	93	92	90
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	88
5	102	96	92	89	101	95	92	89	94	91	88	92	90	87	91	89	87	86
6	99	93	89	86	98	93	89	86	91	88	86	90	87	85	89	87	85	84
7	97	91	87	84	96	90	87	84	89	86	84	88	85	83	87	85	83	82
8	95	89	85	82	94	88	85	82	87	84	82	86	84	81	86	83	81	80
9	93	87	83	80	92	86	83	80	86	82	80	85	82	80	84	82	80	79
10	91	85	81	79	90	85	81	79	84	81	79	83	80	78	83	80	78	77

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3016178	3016178	3016178
5°	1941875	1962093	1946854
10°	678024	712041	698259
15°	220985	237283	211357
20°	86856	101670	85598
25°	43761	50698	45065
30°	27059	30203	28189
35°	20069	21346	20235
40°	16162	16440	14796
45°	12070	12563	11769
50°	10987	11755	11755
55°	11097	13039	12566
60°	10773	9378	9784
65°	7610	8115	7450
70°	5523	6939	5523
75°	2695	4342	3256
80°	6025	3626	1227
85°	0	2445	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1482.3	54.0
10°-20°	738.7	26.9
20°-30°	221.2	8.1
30°-40°	110.4	4.0
40°-50°	75.2	2.7
50°-60°	61.0	2.2
60°-70°	37.7	1.4
70°-80°	15.2	0.6
80°-90°	2.5	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°	2442.2	89.0
0°-40°	2552.6	93.0
0°-60°	2688.7	98.0
0°-90°	2744.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2744.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	31135	31135	31135	31135	31135	
5°	19969	20159	20177	20458	20020	1456
15°	2203	2248	2366	2226	2107	717
25°	409	439	474	446	422	205
35°	170	172	180	177	171	107
45°	88	92	92	90	86	73
55°	66	79	77	76	74	58
65°	33	37	35	33	32	36
75°	7	6	12	12	9	13
85°	0	0	2	1	0	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	31134.6	31134.6	31134.6	31134.6	31134.6
1°	30363.6	30534.0	30733.2	30684.1	30552.0
2°	28633.0	28970.9	28959.4	29104.5	28945.6
3°	26248.4	26440.4	26457.8	26524.9	26351.6
4°	23221.9	23346.8	23461.6	23578.6	23330.9
5°	19968.8	20159.4	20176.7	20457.5	20020.0
6°	16888.9	16883.1	17021.7	17142.3	16938.0
7°	13573.6	13988.7	14111.5	14035.7	14020.5
8°	10940.6	11241.0	11482.1	11340.6	11388.2
9°	8766.8	8912.6	9007.2	9251.9	9285.2
10°	6892.6	7091.8	7238.4	7292.5	7098.3
12.5°	3925.3	3935.4	4115.9	3914.5	3754.9
15°	2203.4	2248.2	2365.9	2226.5	2107.4
17.5°	1291.6	1378.9	1499.5	1368.1	1257.7
20°	842.5	892.3	986.2	889.5	830.3
22.5°	563.1	618.7	675.0	622.3	581.9
25°	409.4	439.0	474.3	445.5	421.6
27.5°	321.3	332.1	359.5	340.8	326.3
30°	241.9	253.4	270.0	257.0	252.0
32.5°	197.1	203.6	220.9	207.9	200.0
35°	169.7	172.5	180.5	176.9	171.1
37.5°	137.9	137.2	147.3	135.7	140.1
40°	127.8	122.7	130.0	124.2	117.0
42.5°	115.5	118.4	117.0	117.7	117.0
45°	88.1	91.7	91.7	90.2	85.9
47.5°	78.0	80.9	83.0	85.9	88.1
50°	72.9	72.9	78.0	78.7	78.0
52.5°	69.3	72.9	72.9	72.2	70.8
55°	65.7	78.7	77.2	75.8	74.4
57.5°	62.1	60.6	59.2	63.5	60.6
60°	55.6	54.9	48.4	51.3	50.5
62.5°	44.8	41.9	49.8	46.2	57.0
65°	33.2	36.8	35.4	33.2	32.5
67.5°	29.6	36.8	33.9	31.8	36.1
70°	19.5	24.5	24.5	18.8	19.5
72.5°	23.8	24.5	25.3	25.3	22.4
75°	7.2	6.5	11.6	12.3	8.7
77.5°	5.1	5.8	9.4	9.4	12.3
80°	10.8	10.1	6.5	10.8	2.2
82.5°	0.0	0.7	0.0	0.7	0.0
85°	0.0	0.0	2.2	0.7	0.0
87.5°	1.4	5.8	2.2	5.8	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)