

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: P328688

Luminaire Tested: **L815SQ30SP935MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P328688  
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: L815SQ30SP935MB  
Description: Square Track 26x1, 3000lm, 15°, 3500K, black finish  
Light Source: (26) 3500K CCT, 92 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

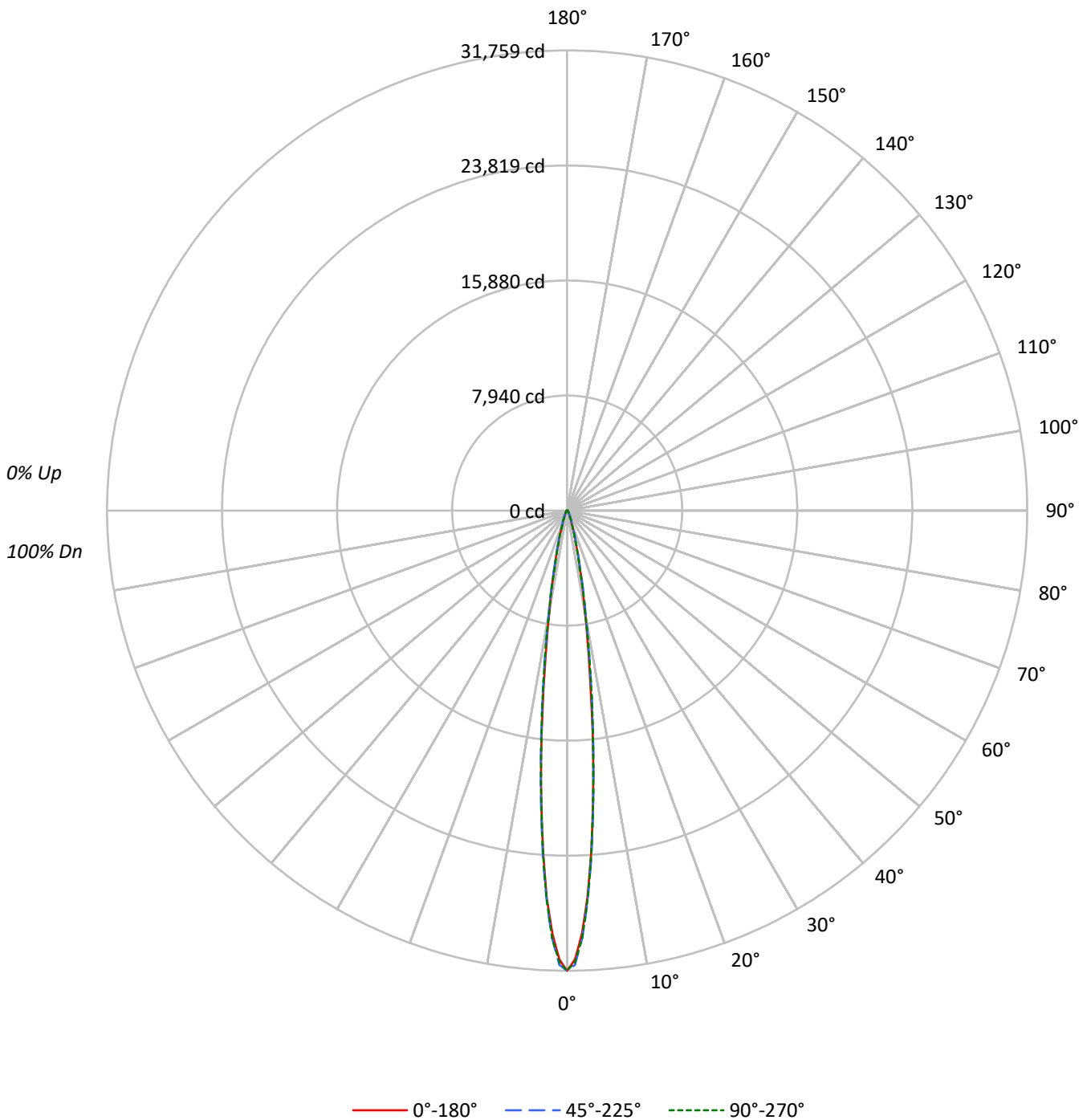
Lumens per Lamp: N/A  
Luminaire Lumens: 2799.0 lumens  
Efficiency: N/A  
Efficacy: 82.3 lumens/watt  
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.24  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

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



TEST NUMBER: P328688  
CATALOG NUMBER: L815SQ30SP935MB

### Luminous Intensity Polar Plot





TEST NUMBER: P328688

CATALOG NUMBER: L815SQ30SP935MB

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

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

	0°	45°	90°
0°	3076638	3076638	3076638
5°	1980793	2001419	1985879
10°	691609	726314	712257
15°	225418	242037	215589
20°	88598	103711	87309
25°	44637	51713	45973
30°	27596	30807	28749
35°	20471	21772	20637
40°	16478	16769	15087
45°	12303	12810	12001
50°	11213	11982	11982
55°	11316	13309	12819
60°	10986	9552	9998
65°	7771	8275	7587
70°	5637	7081	5637
75°	2770	4417	3294
80°	6137	3682	1227
85°	0	2445	0



TEST NUMBER: P328688

CATALOG NUMBER: L815SQ30SP935MB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1512.0	54.0
10°-20°	753.5	26.9
20°-30°	225.7	8.1
30°-40°	112.6	4.0
40°-50°	76.6	2.7
50°-60°	62.2	2.2
60°-70°	38.4	1.4
70°-80°	15.4	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°	2491.1	89.0
0°-40°	2603.8	93.0
0°-60°	2742.6	98.0
0°-90°	2799.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2799.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	31759	31759	31759	31759	31759	
5°	20369	20563	20581	20868	20421	1486
15°	2248	2293	2413	2271	2150	731
25°	418	448	484	454	430	209
35°	173	176	184	180	174	109
45°	90	94	94	92	88	75
55°	67	80	79	77	76	60
65°	34	38	36	34	33	37
75°	7	7	12	12	9	14
85°	0	0	2	1	0	2
90°	0	0	0	0	0	



TEST NUMBER: P328688

CATALOG NUMBER: L815SQ30SP935MB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	31758.7	31758.7	31758.7	31758.7	31758.7
1°	30972.2	31146.0	31349.2	31299.1	31164.4
2°	29206.9	29551.6	29539.8	29687.8	29525.8
3°	26774.5	26970.4	26988.1	27056.6	26879.8
4°	23687.4	23814.8	23931.9	24051.2	23798.6
5°	20369.0	20563.4	20581.1	20867.6	20421.3
6°	17227.4	17221.5	17362.9	17485.9	17277.5
7°	13845.7	14269.1	14394.3	14317.0	14301.5
8°	11159.9	11466.3	11712.2	11567.9	11616.5
9°	8942.5	9091.3	9187.7	9437.4	9471.3
10°	7030.7	7234.0	7383.5	7438.7	7240.6
12.5°	4004.0	4014.3	4198.4	3992.9	3830.2
15°	2247.6	2293.3	2413.3	2271.2	2149.6
17.5°	1317.5	1406.6	1529.6	1395.5	1282.9
20°	859.4	910.2	1006.0	907.3	846.9
22.5°	574.4	631.1	688.6	634.8	593.6
25°	417.6	447.8	483.8	454.4	430.1
27.5°	327.7	338.8	366.7	347.6	332.9
30°	246.7	258.5	275.4	262.2	257.0
32.5°	201.0	207.7	225.3	212.1	204.0
35°	173.1	176.0	184.1	180.4	174.5
37.5°	140.7	139.9	150.2	138.4	142.9
40°	130.3	125.2	132.6	126.7	119.3
42.5°	117.8	120.8	119.3	120.0	119.3
45°	89.8	93.5	93.5	92.1	87.6
47.5°	79.5	82.5	84.7	87.6	89.8
50°	74.4	74.4	79.5	80.3	79.5
52.5°	70.7	74.4	74.4	73.6	72.2
55°	67.0	80.3	78.8	77.3	75.9
57.5°	63.3	61.9	60.4	64.8	61.9
60°	56.7	56.0	49.3	52.3	51.6
62.5°	45.7	42.7	50.8	47.1	58.2
65°	33.9	37.6	36.1	33.9	33.1
67.5°	30.2	37.6	34.6	32.4	36.8
70°	19.9	25.0	25.0	19.1	19.9
72.5°	24.3	25.0	25.8	25.8	22.8
75°	7.4	6.6	11.8	12.5	8.8
77.5°	5.2	5.9	9.6	9.6	12.5
80°	11.0	10.3	6.6	11.0	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°	1.5	5.9	2.2	5.9	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)