

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: P837172

Luminaire Tested: **L830S15SP940**

Issue Date: 5/17/2024

Test Information

Test Method: LM-79-08
Report Number: P837172
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (1529)
Test Lab: INNOVATION CENTER
Issue Date: 5/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L830S15SP940
Description: Sustainable LED Track Luminaire with Spot Optic and, 4000K, 90CRI LEDs
Light Source: -
Ballast/Driver: -

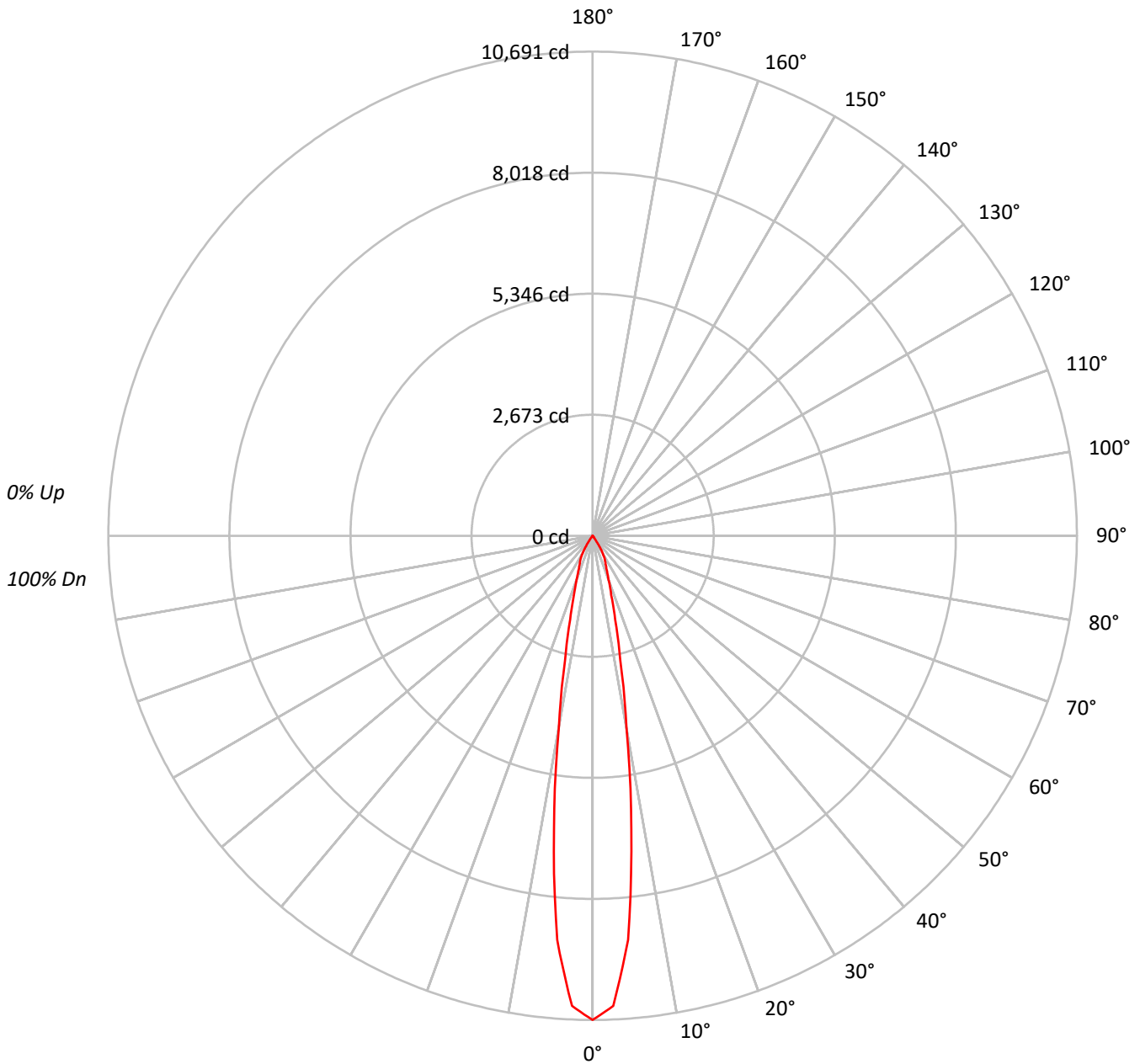
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1694.0 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.31
Luminous Opening: Circular (Dia: 0.29' x H: 0')
CIE Type: Direct

Input Watts (W): 15
Input Voltage (V): NR
Input Current (A_{in}): 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: P837172
CATALOG NUMBER: L830S15SP940

Luminous Intensity Polar Plot





TEST NUMBER: P837172
 CATALOG NUMBER: L830S15SP940

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	108	107	106	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	94
3	108	103	100	97	106	102	99	96	99	97	95	97	95	93	95	93	92	90
4	105	99	95	92	103	98	95	92	96	93	91	94	92	90	93	91	89	88
5	101	96	92	89	100	95	91	88	93	90	87	92	89	87	90	88	86	85
6	99	92	88	85	97	92	88	85	90	87	85	89	86	84	88	86	84	82
7	96	90	85	83	95	89	85	82	88	84	82	87	84	82	86	83	81	80
8	93	87	83	80	92	86	82	80	85	82	80	85	81	79	84	81	79	78
9	91	84	80	78	90	84	80	78	83	80	77	82	79	77	82	79	77	76
10	89	82	78	76	88	82	78	75	81	78	75	80	77	75	80	77	75	74

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1722349
5°	1448651
10°	703287
15°	319915
20°	175832
25°	119525
30°	81294
35°	25469
40°	5321
45°	1185
50°	476
55°	281
60°	258
65°	305
70°	283
75°	187
80°	186
85°	185



TEST NUMBER: P837172
 CATALOG NUMBER: L830S15SP940

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	693.9	41.0
10°-20°	575.7	34.0
20°-30°	314.1	18.5
30°-40°	101.7	6.0
40°-50°	6.4	0.4
50°-60°	1.0	0.1
60°-70°	0.7	0.0
70°-80°	0.4	0.0
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°	1583.7	93.5
0°-40°	1685.4	99.5
0°-60°	1692.8	99.9
0°-90°	1694.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1694.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10691	
5°	8958	694
15°	1918	576
25°	672	314
35°	130	102
45°	5	6
55°	1	1
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	



TEST NUMBER: P837172
CATALOG NUMBER: L830S15SP940

CANDELA DISTRIBUTION (FULL):

	0°
0°	10690.9
2.5°	10392.4
5°	8957.8
7.5°	6542.9
10°	4299.1
12.5°	2816.1
15°	1918.1
17.5°	1364.2
20°	1025.6
22.5°	799.5
25°	672.4
27.5°	573.9
30°	437.0
32.5°	273.5
35°	129.5
37.5°	46.7
40°	25.3
42.5°	12.5
45°	5.2
47.5°	2.9
50°	1.9
52.5°	1.4
55°	1.0
57.5°	0.9
60°	0.8
62.5°	0.8
65°	0.8
67.5°	0.6
70°	0.6
72.5°	0.4
75°	0.3
77.5°	0.3
80°	0.2
82.5°	0.1
85°	0.1
87.5°	0.1
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0



TEST NUMBER: P837172
CATALOG NUMBER: L830S15SP940

CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°







107.5°		0.0
110°		0.0



(END OF REPORT)