

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: P837184

Luminaire Tested: **L830S23NF940**

Issue Date: 5/17/2024

Test Information

Test Method: LM-79-08
Report Number: P837184
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (1529-B)
Test Lab: INNOVATION CENTER
Issue Date: 5/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L830S23NF940
Description: Sustainable LED Track Luminaire with Narrow Flood Optic and, 4000K, 90CRI LEDs
Light Source: -
Ballast/Driver: -

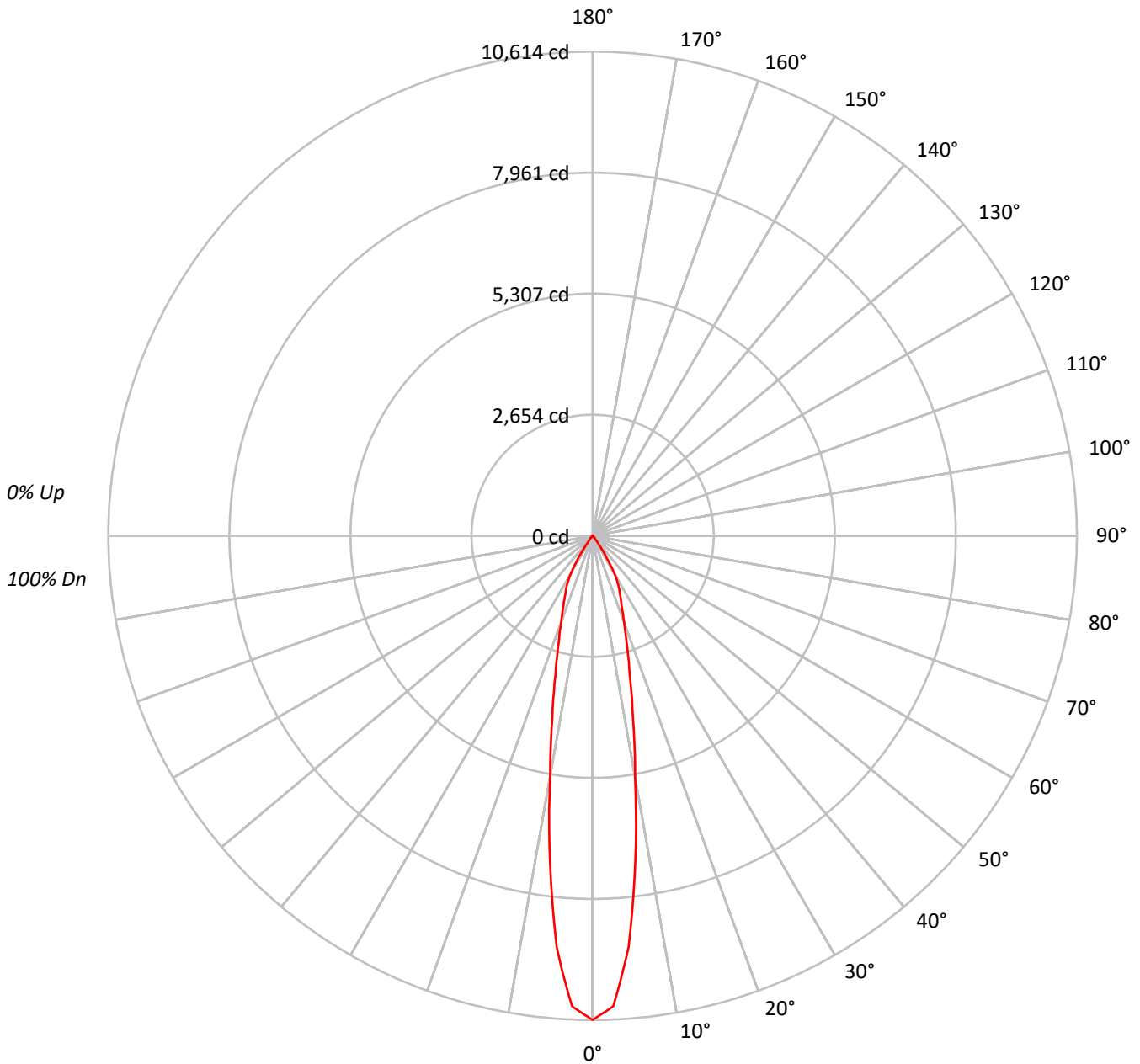
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2552.0 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.4
Luminous Opening: Circular (Dia: 0.29' x H: 0')
CIE Type: Direct

Input Watts (W): 22.8
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

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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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	98	96			
2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	95	93	92			
3	106	101	97	94	104	100	96	93	97	94	92	95	93	91	93	91	89	88			
4	103	97	92	89	101	95	91	88	93	90	87	92	89	86	90	87	85	84			
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81			
6	95	89	84	81	94	88	83	80	86	83	80	85	82	79	84	81	79	78			
7	92	85	80	77	91	84	80	77	83	79	77	82	79	76	81	78	76	75			
8	89	82	77	74	88	81	77	74	80	76	74	79	76	73	79	75	73	72			
9	86	79	74	71	85	78	74	71	78	74	71	77	73	71	76	73	70	69			
10	84	76	72	69	83	76	71	69	75	71	68	74	71	68	74	70	68	67			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1709960
5°	1463158
10°	875956
15°	523262
20°	344207
25°	252720
30°	178716
35°	57094
40°	14154
45°	4967
50°	2030
55°	983
60°	806
65°	762
70°	659
75°	622
80°	464
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	739.3	29.0
10°-20°	900.0	35.3
20°-30°	657.1	25.7
30°-40°	227.7	8.9
40°-50°	21.1	0.8
50°-60°	3.7	0.1
60°-70°	2.0	0.1
70°-80°	1.0	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°	2296.4	90.0
0°-40°	2524.0	98.9
0°-60°	2548.9	99.9
0°-90°	2552.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2552.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10614	
5°	9048	739
15°	3137	900
25°	1422	657
35°	290	228
45°	22	21
55°	4	4
65°	2	2
75°	1	1
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	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10614.0
2.5°	10324.0
5°	9047.5
7.5°	7166.8
10°	5354.6
12.5°	4073.0
15°	3137.3
17.5°	2477.9
20°	2007.7
22.5°	1666.7
25°	1421.7
27.5°	1221.0
30°	960.7
32.5°	603.7
35°	290.3
37.5°	114.1
40°	67.3
42.5°	39.3
45°	21.8
47.5°	13.4
50°	8.1
52.5°	5.0
55°	3.5
57.5°	2.9
60°	2.5
62.5°	2.2
65°	2.0
67.5°	1.8
70°	1.4
72.5°	1.2
75°	1.0
77.5°	0.7
80°	0.5
82.5°	0.2
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0



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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)