

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: P837182

Luminaire Tested: **L830S23NF930**

Issue Date: 5/17/2024



Test Information

Test Method: LM-79-08
Report Number: P837182
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: L830S23NF930
Description: Sustainable LED Track Luminaire with Narrow Flood Optic and, 3000K, 90CRI LEDs
Light Source: -
Ballast/Driver: -

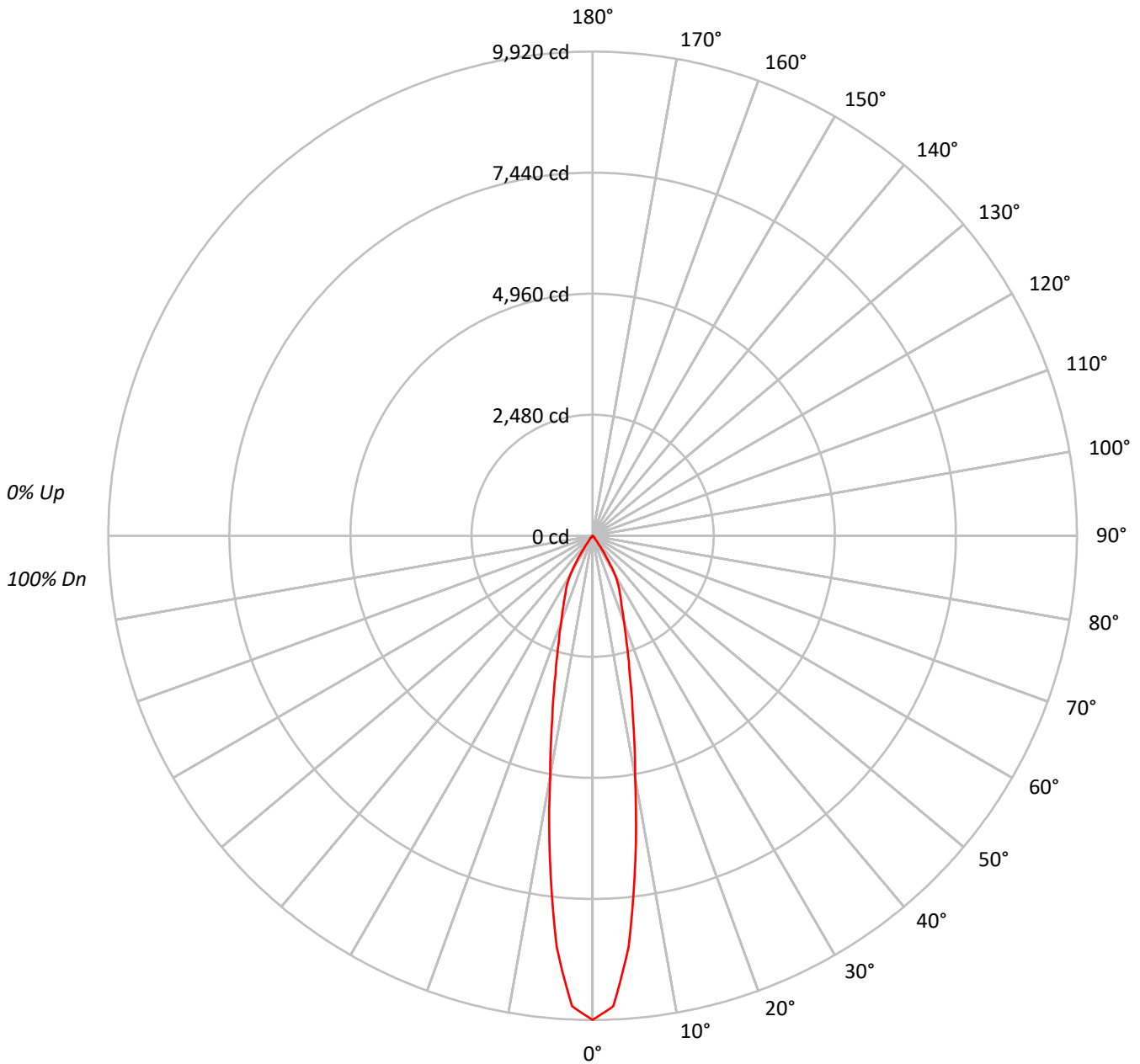
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2385.0 lumens
Efficiency: N/A
Efficacy: 104.6 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			100
1	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	98	96			96
2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	95	93	92			92
3	106	101	97	94	104	100	96	93	97	94	92	95	93	91	93	91	89	88			88
4	103	97	92	89	101	95	91	88	93	90	87	92	89	86	90	87	85	84			84
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81			81
6	95	89	84	81	94	88	83	80	86	83	80	85	82	79	84	81	79	78			78
7	92	85	80	77	91	84	80	77	83	79	77	82	79	76	81	78	76	75			75
8	89	82	77	74	88	81	77	74	80	76	74	79	76	73	79	75	73	72			72
9	86	79	74	71	85	78	74	71	78	74	71	77	73	71	76	73	70	69			69
10	84	76	72	69	83	76	71	69	75	71	68	74	71	68	74	70	68	67			67

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1598073
5°	1367404
10°	818634
15°	489020
20°	321679
25°	236170
30°	167015
35°	53357
40°	13228
45°	4648
50°	1905
55°	927
60°	741
65°	724
70°	612
75°	560
80°	464
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	690.9	29.0
10°-20°	841.1	35.3
20°-30°	614.1	25.7
30°-40°	212.8	8.9
40°-50°	19.7	0.8
50°-60°	3.5	0.1
60°-70°	1.9	0.1
70°-80°	0.9	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°	2146.1	90.0
0°-40°	2358.9	98.9
0°-60°	2382.1	99.9
0°-90°	2385.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2385.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9920	
5°	8455	691
15°	2932	841
25°	1329	614
35°	271	213
45°	20	20
55°	3	3
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°	9919.5
2.5°	9648.4
5°	8455.4
7.5°	6697.8
10°	5004.2
12.5°	3806.5
15°	2932.0
17.5°	2315.7
20°	1876.3
22.5°	1557.6
25°	1328.6
27.5°	1141.1
30°	897.8
32.5°	564.2
35°	271.3
37.5°	106.7
40°	62.9
42.5°	36.7
45°	20.4
47.5°	12.5
50°	7.6
52.5°	4.7
55°	3.3
57.5°	2.7
60°	2.3
62.5°	2.1
65°	1.9
67.5°	1.7
70°	1.3
72.5°	1.1
75°	0.9
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)