

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: P837180

Luminaire Tested: **L830S23FL940**

Issue Date: 5/17/2024



Test Information

Test Method: LM-79-08
Report Number: P837180
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (1529-C)
Test Lab: INNOVATION CENTER
Issue Date: 5/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L830S23FL940
Description: Sustainable LED Track Luminaire with Flood Optic and, 4000K, 90CRI LEDs
Light Source: -
Ballast/Driver: -

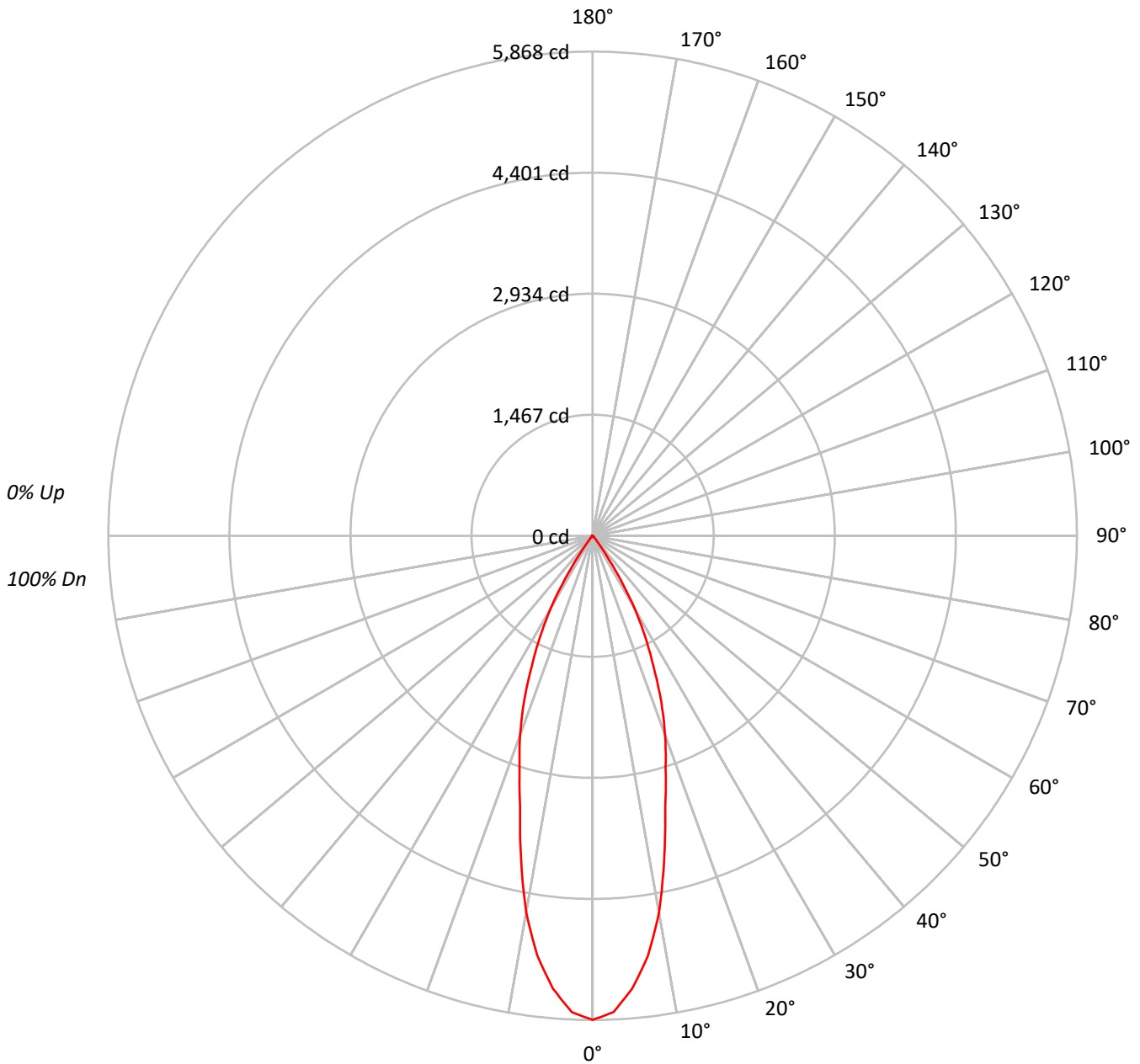
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2522.1 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 0.56 / 0.56 / 0.63
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95		
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91		
3	105	100	96	92	103	99	95	92	96	93	90	94	91	89	92	89	87	86		
4	101	95	90	87	100	94	89	86	92	88	85	90	87	84	88	85	83	82		
5	97	90	85	82	96	89	85	81	88	84	81	86	83	80	85	82	79	78		
6	93	86	81	77	92	85	81	77	84	80	77	83	79	76	81	78	76	74		
7	90	82	77	74	89	82	77	73	80	76	73	79	75	73	78	75	72	71		
8	87	79	74	70	85	78	73	70	77	73	70	76	72	69	75	72	69	68		
9	83	75	70	67	82	75	70	67	74	70	67	73	69	66	72	69	66	65		
10	80	72	67	64	79	72	67	64	71	67	64	70	66	64	70	66	64	62		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	945295
5°	890848
10°	758384
15°	566410
20°	440181
25°	309585
30°	190194
35°	57232
40°	12639
45°	5058
50°	3308
55°	2500
60°	1837
65°	1220
70°	895
75°	747
80°	464
85°	185



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.4	19.8
10°-20°	958.0	38.0
20°-30°	798.3	31.7
30°-40°	233.2	9.2
40°-50°	21.2	0.8
50°-60°	8.1	0.3
60°-70°	3.4	0.1
70°-80°	1.3	0.1
80°-90°	0.2	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°	2254.7	89.4
0°-40°	2487.9	98.6
0°-60°	2517.2	99.8
0°-90°	2522.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2522.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5868	
5°	5509	498
15°	3396	958
25°	1742	798
35°	291	233
45°	22	21
55°	9	8
65°	3	3
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°	5867.6
2.5°	5777.4
5°	5508.6
7.5°	5130.7
10°	4635.9
12.5°	4006.0
15°	3396.0
17.5°	2941.6
20°	2567.5
22.5°	2169.2
25°	1741.6
27.5°	1375.5
30°	1022.4
32.5°	620.7
35°	291.0
37.5°	109.2
40°	60.1
42.5°	36.6
45°	22.2
47.5°	16.5
50°	13.2
52.5°	10.7
55°	8.9
57.5°	7.3
60°	5.7
62.5°	4.2
65°	3.2
67.5°	2.5
70°	1.9
72.5°	1.6
75°	1.2
77.5°	0.9
80°	0.5
82.5°	0.3
85°	0.1
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)