

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: P837189

Luminaire Tested: **L830S23WF927**

Issue Date: 5/17/2024

Test Information

Test Method: LM-79-08
Report Number: P837189
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: L830S23WF927
Description: Sustainable LED Track Luminaire with Wide Flood Optic and, 2700K, 90CRI LEDs
Light Source: -
Ballast/Driver: -

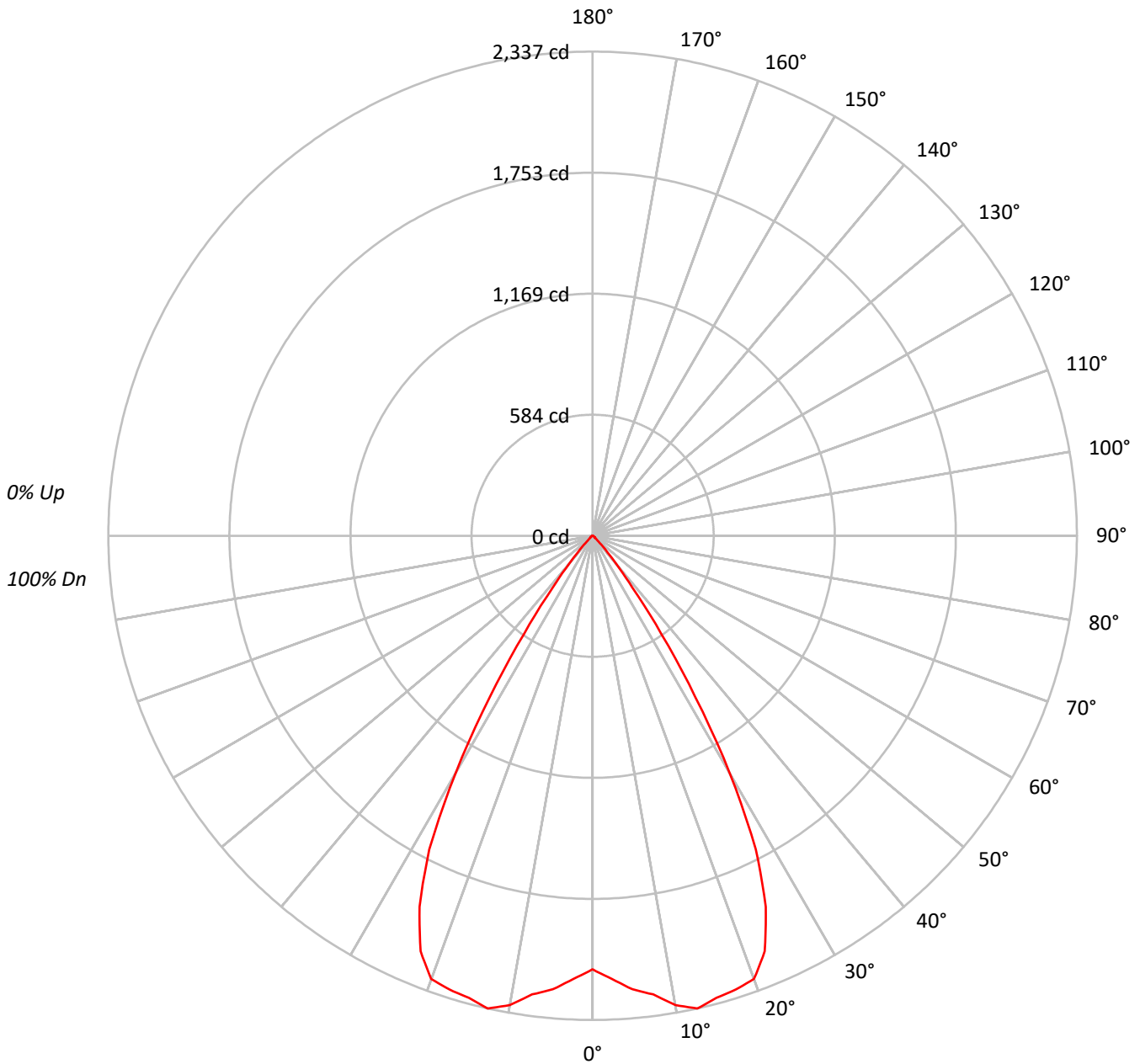
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2190.1 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.09 / 0.91
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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94			
2	108	104	100	97	106	102	99	96	99	96	93	96	94	91	93	91	90	88			
3	103	97	92	89	101	96	91	88	93	89	86	91	88	85	88	86	84	82			
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	78	77			
5	94	86	80	76	92	85	79	75	83	78	75	81	77	74	80	76	74	72			
6	89	81	75	71	88	80	74	70	78	74	70	77	73	69	76	72	69	68			
7	85	76	70	66	84	75	70	66	74	69	66	73	68	65	72	68	65	64			
8	81	72	66	62	80	71	66	62	70	65	62	69	65	61	68	64	61	60			
9	77	68	62	58	76	67	62	58	66	61	58	66	61	58	65	61	58	56			
10	74	64	59	55	73	64	58	55	63	58	55	62	58	54	62	57	54	53			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	337143
5°	355266
10°	376239
15°	385179
20°	390343
25°	351340
30°	246151
35°	113578
40°	37119
45°	8977
50°	4010
55°	3455
60°	2674
65°	1639
70°	1083
75°	622
80°	649
85°	370



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.1	9.7
10°-20°	653.5	29.8
20°-30°	872.9	39.9
30°-40°	388.2	17.7
40°-50°	46.2	2.1
50°-60°	11.1	0.5
60°-70°	4.5	0.2
70°-80°	1.2	0.1
80°-90°	0.3	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°	1738.6	79.4
0°-40°	2126.7	97.1
0°-60°	2184.0	99.7
0°-90°	2190.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2190.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2093	
5°	2197	212
15°	2309	654
25°	1976	873
35°	578	388
45°	39	46
55°	12	11
65°	4	5
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°	2092.7
2.5°	2141.0
5°	2196.8
7.5°	2232.5
10°	2299.9
12.5°	2337.2
15°	2309.4
17.5°	2296.5
20°	2276.8
22.5°	2170.5
25°	1976.5
27.5°	1706.5
30°	1323.2
32.5°	921.8
35°	577.5
37.5°	314.2
40°	176.5
42.5°	91.2
45°	39.4
47.5°	20.0
50°	16.0
52.5°	13.9
55°	12.3
57.5°	11.5
60°	8.3
62.5°	5.2
65°	4.3
67.5°	3.5
70°	2.3
72.5°	1.2
75°	1.0
77.5°	0.9
80°	0.7
82.5°	0.5
85°	0.2
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



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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)