

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: P837157

Luminaire Tested: **L830S10WF927**

Issue Date: 5/17/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P837157  
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: L830S10WF927  
Description: Sustainable LED Track Luminaire with Wide Flood Optic and, 2700K, 90CRI LEDs  
Light Source: -  
Ballast/Driver: -

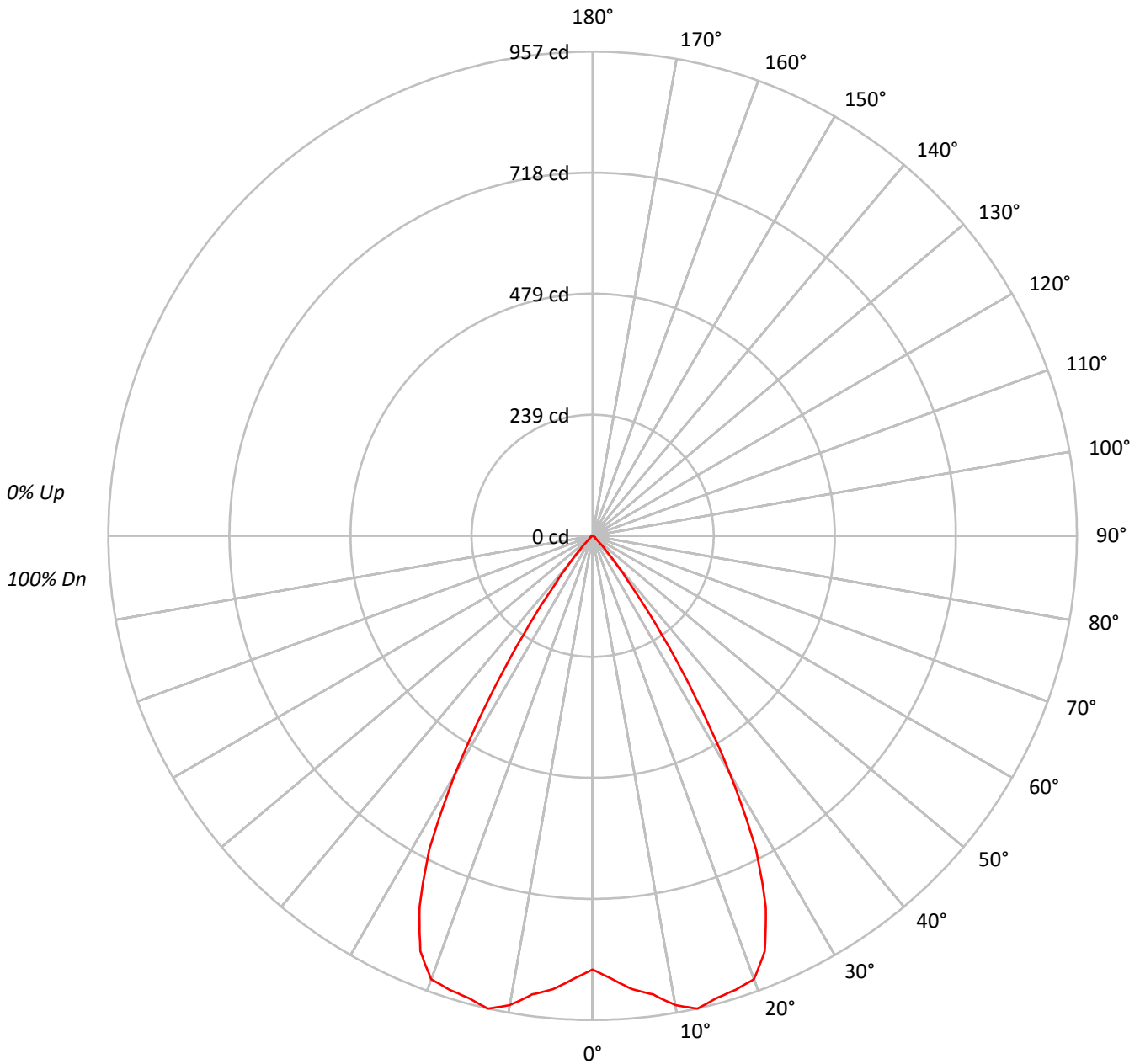
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 897.0 lumens  
Efficiency: N/A  
Efficacy: 99.7 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): 9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P837157  
CATALOG NUMBER: L830S10WF927

### 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	76	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°	138098
5°	145515
10°	154101
15°	157764
20°	159871
25°	143914
30°	100827
35°	46513
40°	15205
45°	3668
50°	1629
55°	1404
60°	1096
65°	686
70°	424
75°	249
80°	278
85°	185



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.9	9.7
10°-20°	267.7	29.8
20°-30°	357.5	39.9
30°-40°	159.0	17.7
40°-50°	18.9	2.1
50°-60°	4.5	0.5
60°-70°	1.8	0.2
70°-80°	0.5	0.1
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°	712.1	79.4
0°-40°	871.1	97.1
0°-60°	894.5	99.7
0°-90°	897.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	897.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	857	
5°	900	87
15°	946	268
25°	810	358
35°	236	159
45°	16	19
55°	5	5
65°	2	2
75°	0	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°	857.2
2.5°	876.9
5°	899.8
7.5°	914.4
10°	942.0
12.5°	957.3
15°	945.9
17.5°	940.6
20°	932.5
22.5°	889.0
25°	809.6
27.5°	699.0
30°	542.0
32.5°	377.5
35°	236.5
37.5°	128.7
40°	72.3
42.5°	37.4
45°	16.1
47.5°	8.2
50°	6.5
52.5°	5.7
55°	5.0
57.5°	4.7
60°	3.4
62.5°	2.1
65°	1.8
67.5°	1.4
70°	0.9
72.5°	0.5
75°	0.4
77.5°	0.4
80°	0.3
82.5°	0.2
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)