

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: P837153

Luminaire Tested: **L830S10SP927**

Issue Date: 5/17/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P837153  
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: L830S10SP927  
Description: Sustainable LED Track Luminaire with Spot Optic and, 2700K, 90CRI LEDs  
Light Source: -  
Ballast/Driver: -

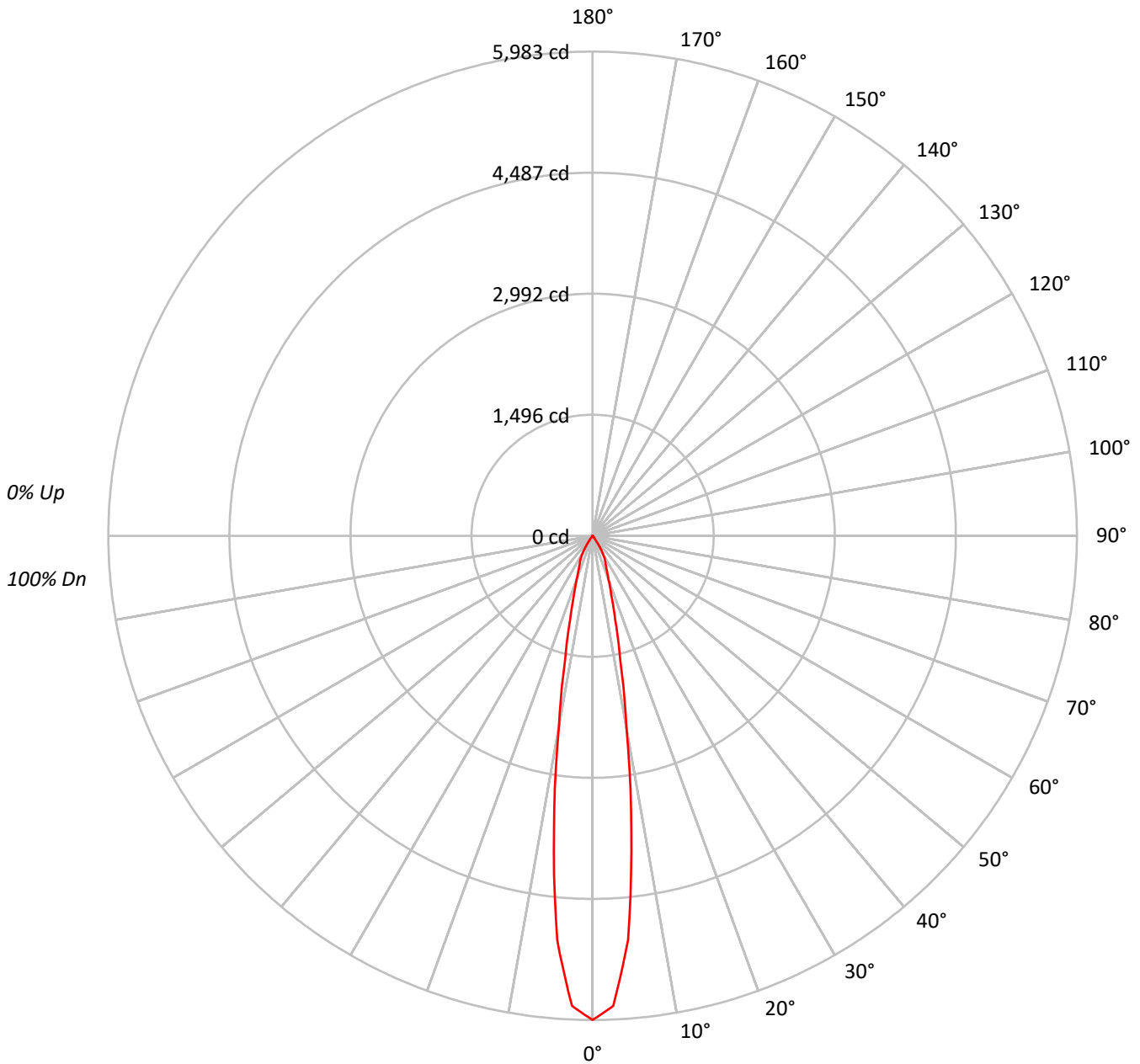
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 948.0 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.31  
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

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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	97
2	111	108	105	102	109	106	103	101	103	101	99	100	98	97	97	96	95	94
3	108	103	100	97	106	102	99	96	99	97	95	97	95	93	95	93	92	90
4	105	99	95	92	103	98	95	92	96	93	91	94	92	90	93	91	89	88
5	101	96	92	89	100	95	91	88	93	90	87	92	89	87	90	88	86	85
6	99	92	88	85	97	92	88	85	90	87	85	89	86	84	88	86	84	82
7	96	90	85	83	95	89	85	82	88	84	82	87	84	82	86	83	81	80
8	93	87	83	80	92	86	82	80	85	82	80	85	81	79	84	81	79	78
9	91	84	80	78	90	84	80	78	83	80	77	82	79	77	82	79	77	76
10	89	82	78	76	88	82	78	75	81	78	75	80	77	75	80	77	75	74

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	963854
5°	810700
10°	393580
15°	179029
20°	98409
25°	66891
30°	45502
35°	14259
40°	2986
45°	661
50°	276
55°	169
60°	161
65°	152
70°	141
75°	124
80°	93
85°	185



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	388.3	41.0
10°-20°	322.2	34.0
20°-30°	175.8	18.5
30°-40°	56.9	6.0
40°-50°	3.6	0.4
50°-60°	0.6	0.1
60°-70°	0.4	0.0
70°-80°	0.2	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°	886.3	93.5
0°-40°	943.2	99.5
0°-60°	947.3	99.9
0°-90°	948.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	948.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5983	
5°	5013	388
15°	1073	322
25°	376	176
35°	72	57
45°	3	4
55°	1	1
65°	0	0
75°	0	0
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°	5982.8
2.5°	5815.8
5°	5013.0
7.5°	3661.6
10°	2405.9
12.5°	1575.9
15°	1073.4
17.5°	763.4
20°	574.0
22.5°	447.4
25°	376.3
27.5°	321.2
30°	244.6
32.5°	153.0
35°	72.5
37.5°	26.1
40°	14.2
42.5°	7.0
45°	2.9
47.5°	1.6
50°	1.1
52.5°	0.8
55°	0.6
57.5°	0.5
60°	0.5
62.5°	0.4
65°	0.4
67.5°	0.4
70°	0.3
72.5°	0.2
75°	0.2
77.5°	0.2
80°	0.1
82.5°	0.1
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)