

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: P837181

Luminaire Tested: **L830S23NF927**

Issue Date: 5/17/2024



**Test Information**

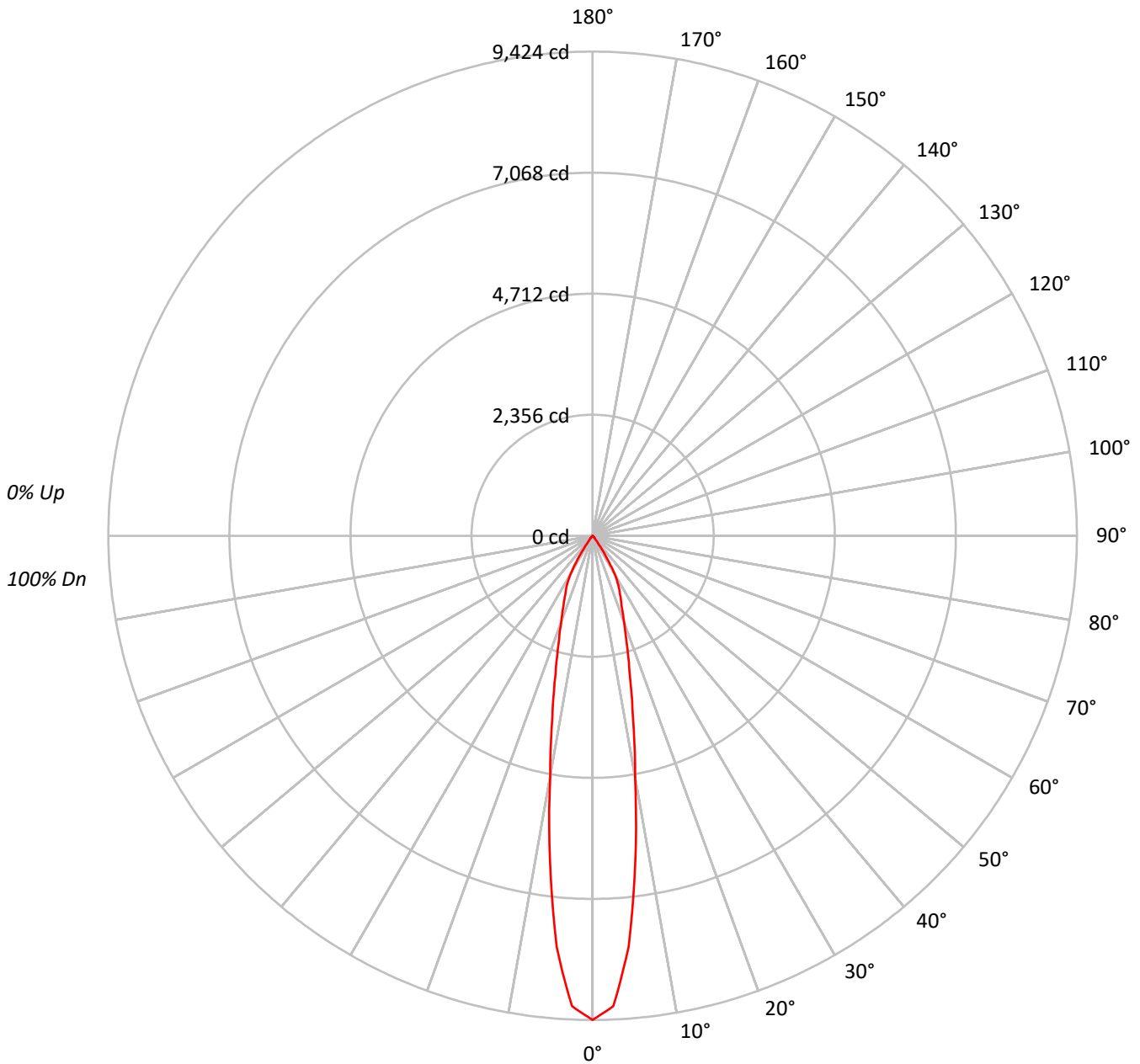
Test Method: LM-79-08  
Report Number: P837181  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (1529-B )  
Test Lab: INNOVATION CENTER  
Issue Date: 5/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: L830S23NF927  
Description: Sustainable LED Track Luminaire with Narrow Flood Optic and, 2700K, 90CRI LEDs  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2266.0 lumens  
Efficiency: N/A  
Efficacy: 99.4 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<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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	98	96		
2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	95	93	92		
3	106	101	97	94	104	100	96	93	97	94	92	95	93	91	93	91	89	88		
4	103	97	92	89	101	95	91	88	93	90	87	92	89	86	90	87	85	84		
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81		
6	95	89	84	81	94	88	83	80	86	83	80	85	82	79	84	81	79	78		
7	92	85	80	77	91	84	80	77	83	79	77	82	79	76	81	78	76	75		
8	89	82	77	74	88	81	77	74	80	76	74	79	76	73	79	75	73	72		
9	86	79	74	71	85	78	74	71	78	74	71	77	73	71	76	73	70	69		
10	84	76	72	69	83	76	71	69	75	71	68	74	71	68	74	70	68	67		

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

	0°
0°	1518326
5°	1299190
10°	777786
15°	464619
20°	305632
25°	224385
30°	158681
35°	50702
40°	12555
45°	4420
50°	1805
55°	871
60°	709
65°	686
70°	565
75°	560
80°	464
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	656.4	29.0
10°-20°	799.1	35.3
20°-30°	583.4	25.7
30°-40°	202.1	8.9
40°-50°	18.8	0.8
50°-60°	3.3	0.1
60°-70°	1.8	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°	2039.0	90.0
0°-40°	2241.1	98.9
0°-60°	2263.2	99.9
0°-90°	2266.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2266.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9424	
5°	8034	656
15°	2786	799
25°	1262	583
35°	258	202
45°	19	19
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°	9424.5
2.5°	9167.0
5°	8033.6
7.5°	6363.6
10°	4754.5
12.5°	3616.5
15°	2785.7
17.5°	2200.2
20°	1782.7
22.5°	1479.9
25°	1262.3
27.5°	1084.1
30°	853.0
32.5°	536.0
35°	257.8
37.5°	101.4
40°	59.7
42.5°	34.9
45°	19.4
47.5°	11.9
50°	7.2
52.5°	4.5
55°	3.1
57.5°	2.6
60°	2.2
62.5°	2.0
65°	1.8
67.5°	1.6
70°	1.2
72.5°	1.0
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)