

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: P837160

Luminaire Tested: **L830S10WF940**

Issue Date: 5/17/2024

**Test Information**

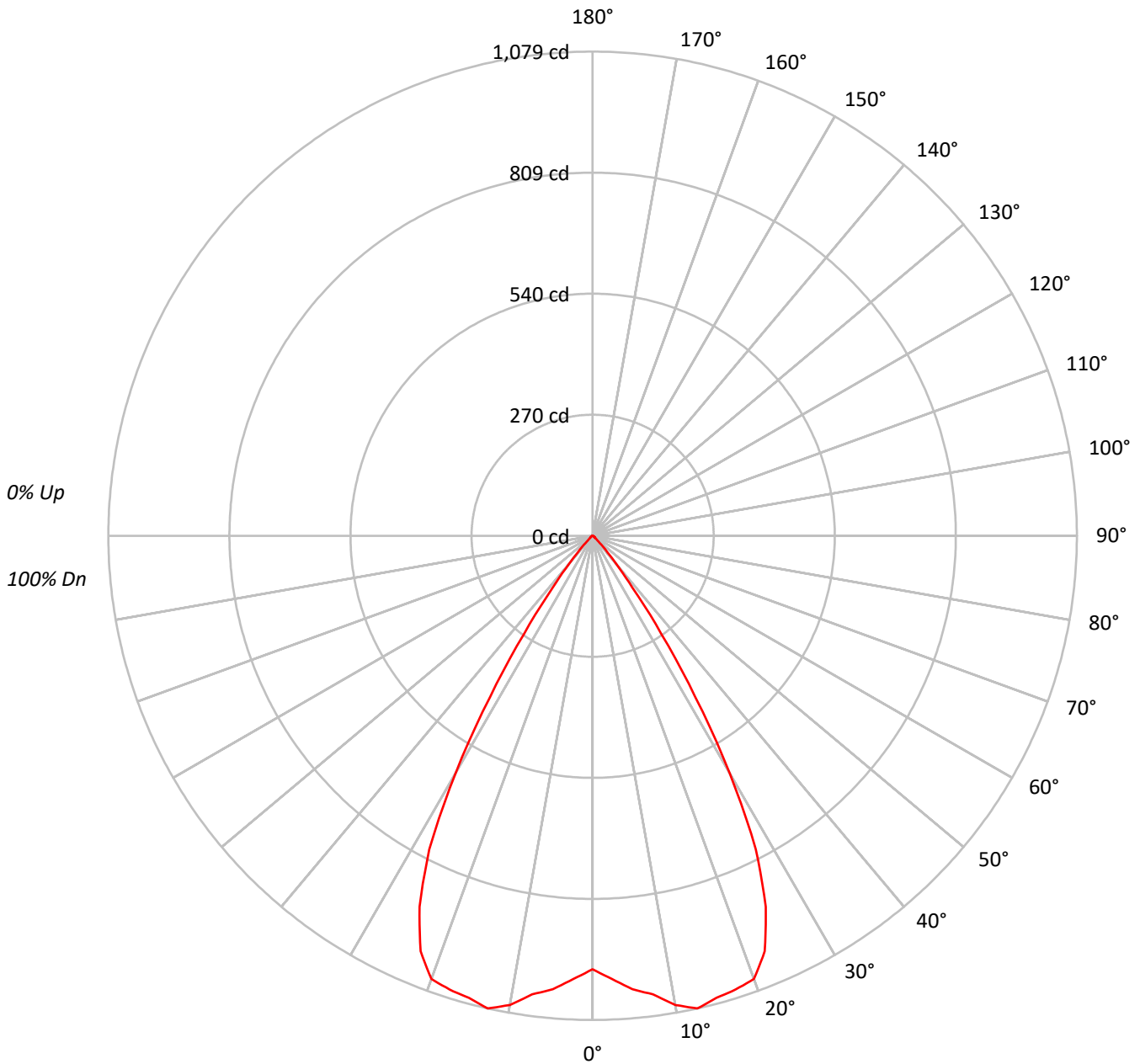
Test Method: LM-79-08  
Report Number: P837160  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (1529 )  
Test Lab: INNOVATION CENTER  
Issue Date: 5/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: L830S10WF940  
Description: Sustainable LED Track Luminaire with Wide Flood Optic and, 4000K, 90CRI LEDs  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1011.0 lumens  
Efficiency: N/A  
Efficacy: 112.3 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

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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°	155643
5°	164000
10°	173699
15°	177812
20°	180204
25°	162205
30°	113625
35°	52433
40°	17140
45°	4147
50°	1855
55°	1601
60°	1224
65°	762
70°	518
75°	311
80°	278
85°	185



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.9	9.7
10°-20°	301.7	29.8
20°-30°	403.0	39.9
30°-40°	179.2	17.7
40°-50°	21.3	2.1
50°-60°	5.1	0.5
60°-70°	2.1	0.2
70°-80°	0.6	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°	802.6	79.4
0°-40°	981.8	97.1
0°-60°	1008.2	99.7
0°-90°	1011.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1011.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	966	
5°	1014	98
15°	1066	302
25°	912	403
35°	267	179
45°	18	21
55°	6	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°	966.1
2.5°	988.4
5°	1014.1
7.5°	1030.6
10°	1061.8
12.5°	1078.9
15°	1066.1
17.5°	1060.2
20°	1051.1
22.5°	1002.0
25°	912.5
27.5°	787.8
30°	610.8
32.5°	425.5
35°	266.6
37.5°	145.0
40°	81.5
42.5°	42.1
45°	18.2
47.5°	9.2
50°	7.4
52.5°	6.4
55°	5.7
57.5°	5.3
60°	3.8
62.5°	2.4
65°	2.0
67.5°	1.6
70°	1.1
72.5°	0.6
75°	0.5
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)