

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: P285891

Luminaire Tested: **L811081SP9040MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285891
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1901-111-1)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L811081SP9040MB
Description: HALO, TRACK-MINI, 15D BEAM
Light Source: (1) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

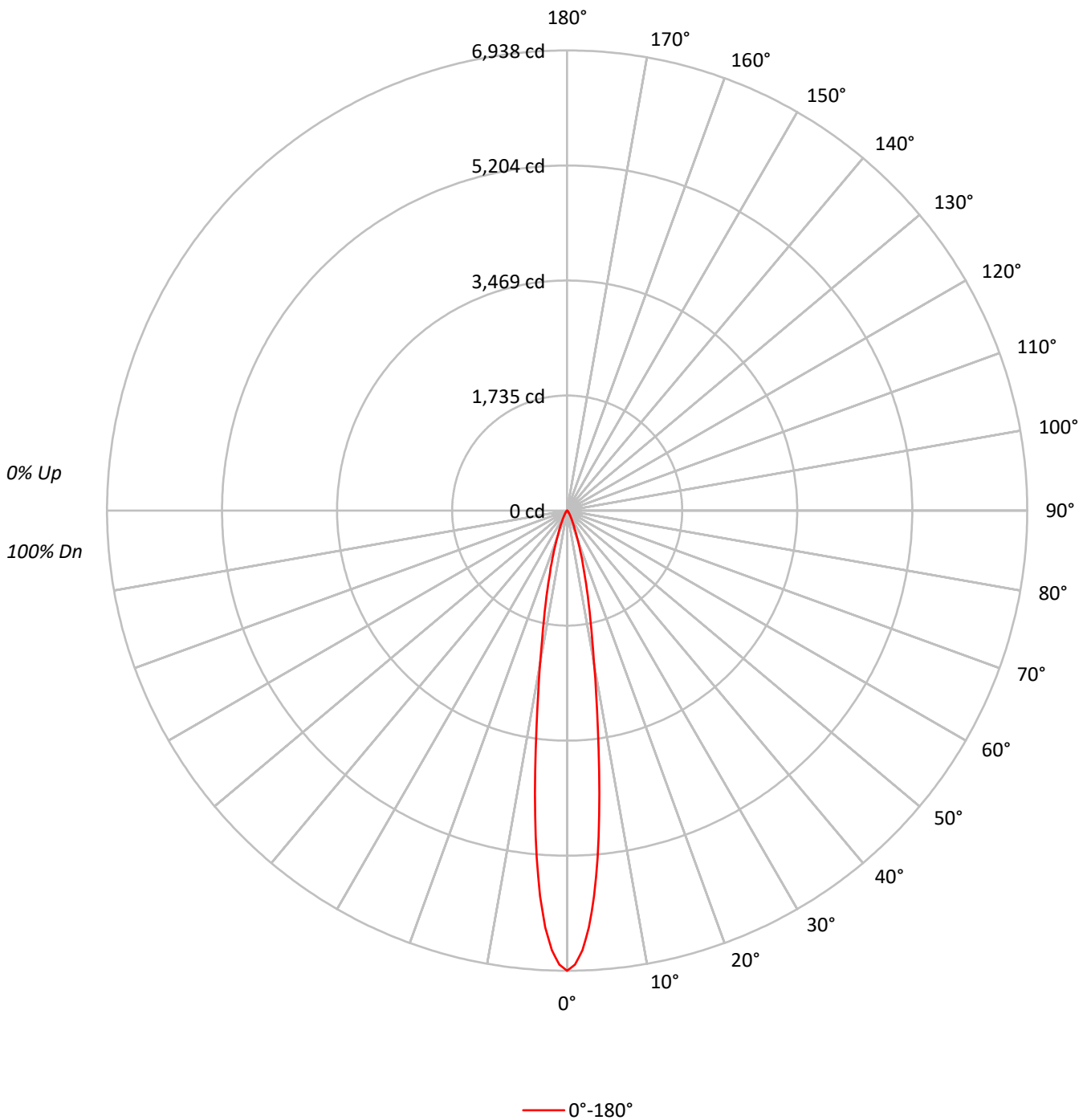
Lumens per Lamp: N/A
Luminaire Lumens: 853.8 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.29
Luminous Opening: Circular (Dia: 0.19' x H: 0')
CIE Type: Direct

Input Watts (W): 10.4
Input Voltage (V): NR
Input Current (Ain): 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	110	113	111	109	108	107	106	105	103	102	102	100	99	99	97
2	112	108	105	103	110	107	104	102	103	101	100	101	99	98	98	97	96	94
3	108	104	100	98	107	103	99	97	100	98	95	98	96	94	96	94	93	91
4	105	100	96	94	104	99	96	93	97	94	92	95	93	91	94	92	90	89
5	102	97	93	90	101	96	92	90	94	91	89	93	90	88	92	89	88	87
6	100	94	90	87	99	93	90	87	92	89	86	91	88	86	90	87	85	84
7	97	91	87	85	96	91	87	84	90	86	84	89	86	84	88	85	83	82
8	95	89	85	82	94	88	85	82	88	84	82	87	84	82	86	83	81	80
9	93	87	83	80	92	86	83	80	86	82	80	85	82	80	84	82	80	79
10	91	85	81	79	90	84	81	78	84	81	78	83	80	78	83	80	78	77

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2704696
5°	2056746
10°	927230
15°	420091
20°	185189
25°	84263
30°	44114
35°	23842
40°	13587
45°	8600
50°	6065
55°	3806
60°	2573
65°	2029
70°	1254
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.2	46.6
10°-20°	301.8	35.3
20°-30°	99.5	11.7
30°-40°	33.4	3.9
40°-50°	12.6	1.5
50°-60°	5.4	0.6
60°-70°	2.4	0.3
70°-80°	0.4	0.1
80°-90°	0.0	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°	799.5	93.6
0°-40°	832.9	97.5
0°-60°	851.0	99.7
0°-90°	853.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	853.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6938	
5°	5256	398
15°	1041	302
25°	196	99
35°	50	33
45°	16	13
55°	6	5
65°	2	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6938.1
1°	6847.9
2°	6630.8
3°	6293.5
4°	5830.3
5°	5255.9
6°	4621.3
7°	3961.1
8°	3322.1
9°	2776.6
10°	2342.4
11°	1985.0
12°	1687.8
13°	1435.0
14°	1222.4
15°	1040.9
17.5°	688.0
20°	446.4
22.5°	293.9
25°	195.9
27.5°	136.9
30°	98.0
32.5°	70.1
35°	50.1
37.5°	35.6
40°	26.7
42.5°	20.0
45°	15.6
47.5°	12.2
50°	10.0
52.5°	7.8
55°	5.6
57.5°	4.5
60°	3.3
62.5°	3.3
65°	2.2
67.5°	2.2
70°	1.1
72.5°	1.1
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0



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CANDELA DISTRIBUTION (continued):

90° | $\frac{0^\circ}{0.0}$

(END OF REPORT)