

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: HALO

Report Number: P885897

Luminaire Tested: ML104LSFL9FS1E-TIR1D40FL-TL1RDSLb-400LM-5000K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885897
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-128)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL9FS1E-TIR1D40FL-TL1RDSL B-400LM-5000K
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 40D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

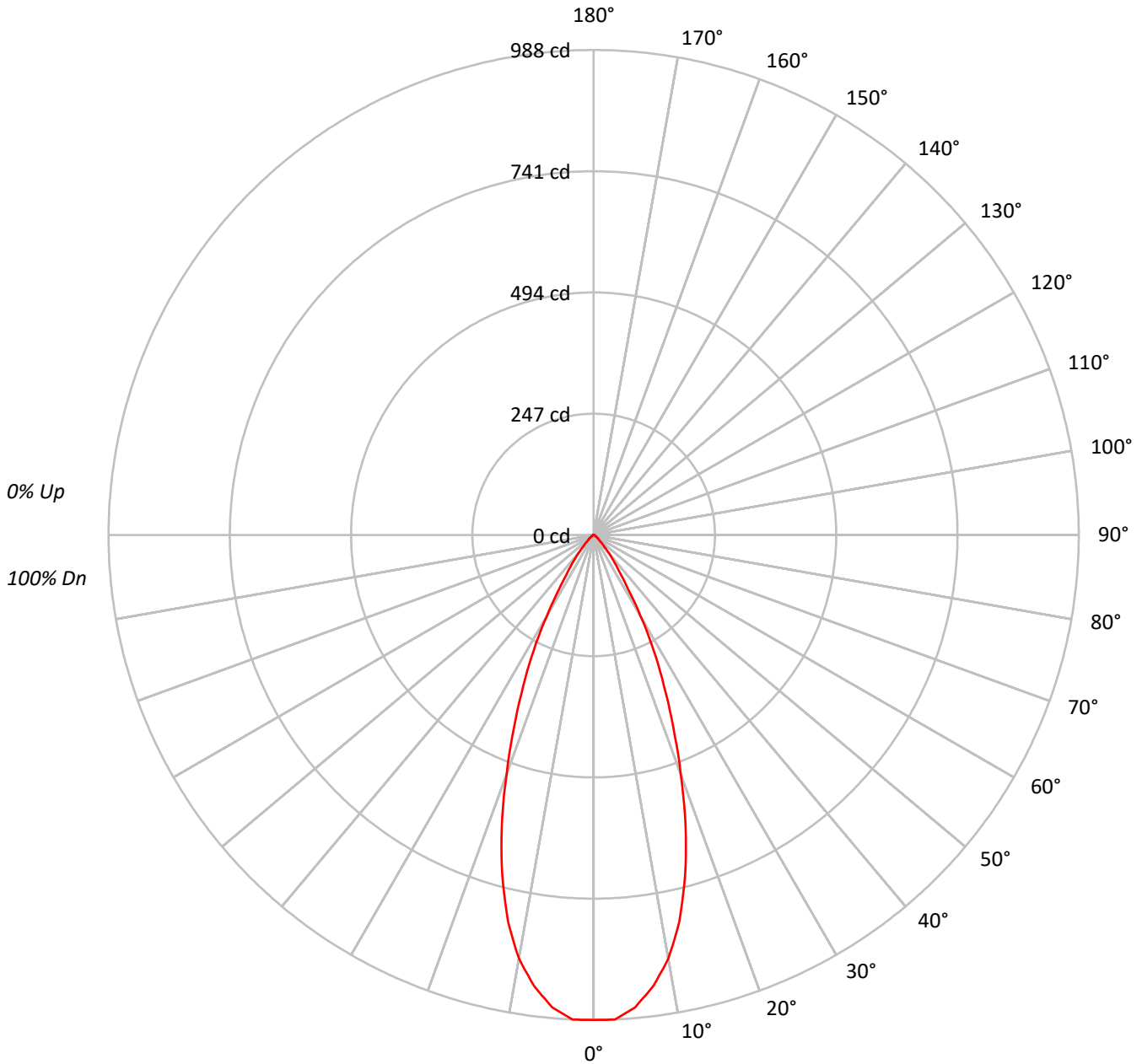
Lumens per Lamp: N/A
Luminaire Lumens: 531.2 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Spacing Criteria (0/90/45): 0.67 / 0.67 / 0.66
Luminous Opening: Circular (Dia: 0.08' x H: 0')
CIE Type: Direct

Input Watts (W): 6
Input Voltage (V): NR
Input Current (A_{in}): 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: 24 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	114	111	109	107	112	109	107	105	105	104	102		102	100	99		98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95		97	95	93		94	92	91	89
3	104	99	94	90	102	97	93	90	95	91	88		92	89	87		90	88	86	84
4	100	93	88	84	98	92	87	84	90	86	83		88	85	82		86	83	81	80
5	96	88	83	79	94	87	82	79	85	81	78		84	80	77		82	79	77	75
6	91	84	78	74	90	83	78	74	81	77	74		80	76	73		79	75	73	71
7	88	79	74	70	86	79	74	70	78	73	70		76	72	69		75	72	69	68
8	84	76	70	67	83	75	70	67	74	70	66		73	69	66		72	69	66	65
9	81	72	67	63	80	72	67	63	71	66	63		70	66	63		69	66	63	62
10	78	69	64	60	77	69	64	60	68	63	60		67	63	60		67	63	60	59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1950254
5°	1913922
10°	1756294
15°	1469237
20°	1089583
25°	736234
30°	435488
35°	219242
40°	123919
45°	58053
50°	35922
55°	22365
60°	15394
65°	12141
70°	7501
75°	9913
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 58053 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.3	16.8
10°-20°	196.5	37.0
20°-30°	155.3	29.2
30°-40°	62.2	11.7
40°-50°	18.3	3.4
50°-60°	6.3	1.2
60°-70°	2.6	0.5
70°-80°	0.9	0.2
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°	441.0	83.0
0°-40°	503.2	94.7
0°-60°	527.8	99.4
0°-90°	531.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	531.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	988	
5°	966	89
15°	719	196
25°	338	155
35°	91	62
45°	21	18
55°	6	6
65°	3	3
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	988.2
2.5°	988.2
5°	966.1
7.5°	927.1
10°	876.4
12.5°	806.2
15°	719.1
17.5°	622.9
20°	518.8
22.5°	422.6
25°	338.1
27.5°	264.0
30°	191.1
32.5°	130.0
35°	91.0
37.5°	66.3
40°	48.1
42.5°	31.2
45°	20.8
47.5°	14.3
50°	11.7
52.5°	9.1
55°	6.5
57.5°	5.2
60°	3.9
62.5°	3.9
65°	2.6
67.5°	1.3
70°	1.3
72.5°	1.3
75°	1.3
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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