

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: P886083

Luminaire Tested: ML204LSFL95FS1E-TIR1D25NFL-TL2RDMW-468LM-4000K

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-2019
Report Number: P886083
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-71)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/18/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D25NFL-TL2RDMW-468LM-4000K
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 4000K CCT
Ballast/Driver: -

Summary

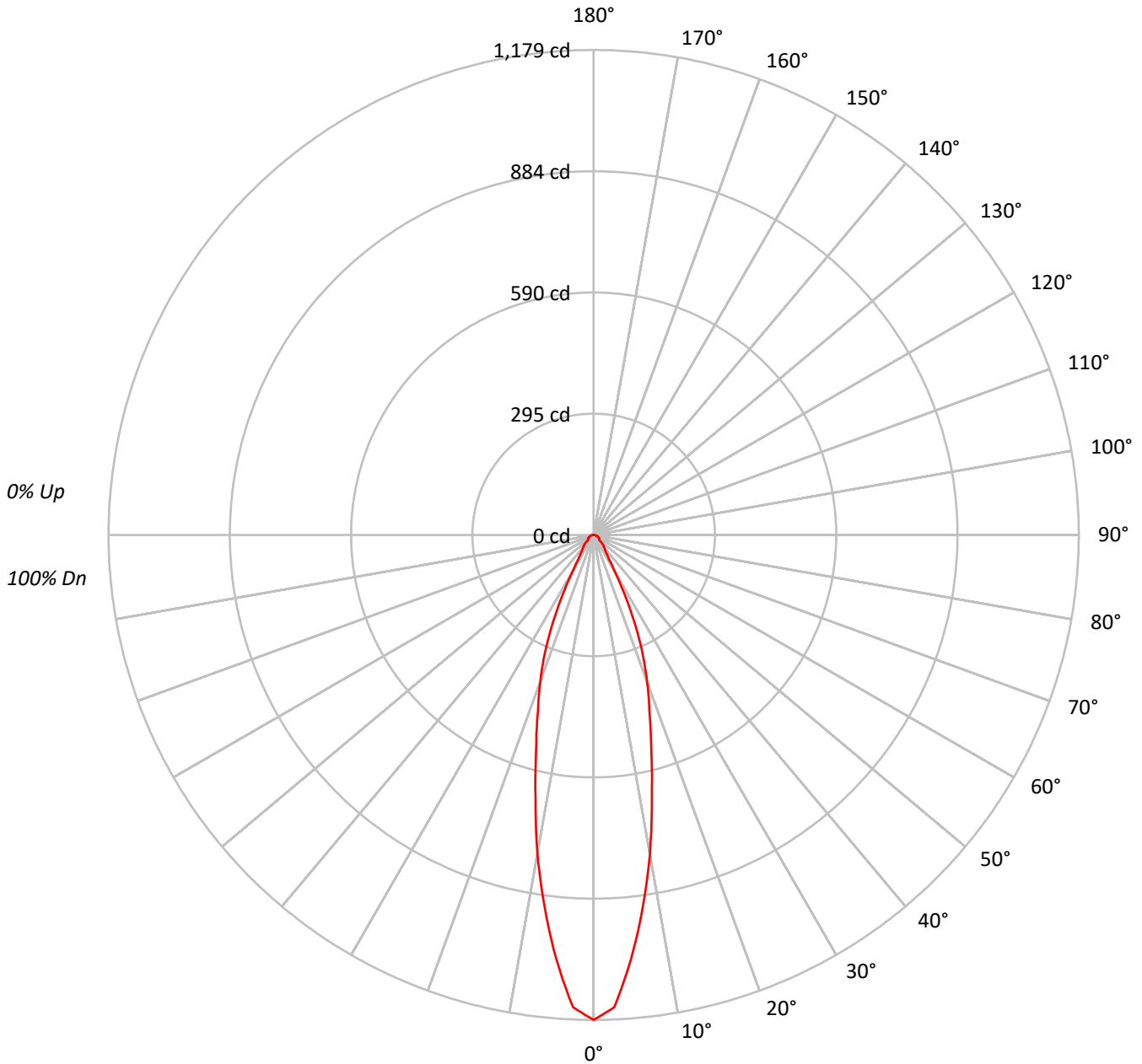
Lumens per Lamp: N/A
Luminaire Lumens: 443.1 lumens
Efficiency: N/A
Efficacy: 55.4 lumens/watt
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.53
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 8
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: 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				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			100
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93			93
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87			87
3	103	96	92	88	101	95	91	87	92	89	86	90	87	84	88	85	83	81			81
4	98	91	85	81	96	90	85	81	88	83	80	86	82	79	84	81	78	77			77
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	73			73
6	90	82	76	72	88	81	76	72	79	75	71	78	74	71	77	73	70	69			69
7	86	78	72	68	85	77	72	68	76	71	68	75	70	67	74	70	67	66			66
8	83	74	69	65	82	74	68	65	73	68	64	72	67	64	71	67	64	63			63
9	80	71	66	62	79	71	65	62	70	65	62	69	65	61	68	64	61	60			60
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	65	62	59	58			58

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	581694
5°	513787
10°	394079
15°	276079
20°	199202
25°	126950
30°	57996
35°	31741
40°	25634
45°	20025
50°	13509
55°	14365
60°	14604
65°	14009
70°	13416
75°	14106
80°	13070
85°	10756

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20025 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.1	20.6
10°-20°	151.9	34.3
20°-30°	105.5	23.8
30°-40°	36.6	8.3
40°-50°	21.4	4.8
50°-60°	14.8	3.3
60°-70°	11.9	2.7
70°-80°	7.5	1.7
80°-90°	2.4	0.5
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°	348.5	78.7
0°-40°	385.1	86.9
0°-60°	421.3	95.1
0°-90°	443.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	443.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1179	
5°	1037	91
15°	540	152
25°	233	105
35°	53	37
45°	29	21
55°	17	15
65°	12	12
75°	7	7
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1179.0
2.5°	1149.4
5°	1037.4
7.5°	913.4
10°	786.6
12.5°	652.4
15°	540.5
17.5°	450.7
20°	379.4
22.5°	310.0
25°	233.2
27.5°	161.0
30°	101.8
32.5°	68.5
35°	52.7
37.5°	45.3
40°	39.8
42.5°	35.2
45°	28.7
47.5°	19.4
50°	17.6
52.5°	17.6
55°	16.7
57.5°	15.7
60°	14.8
62.5°	13.0
65°	12.0
67.5°	11.1
70°	9.3
72.5°	8.3
75°	7.4
77.5°	5.6
80°	4.6
82.5°	3.7
85°	1.9
87.5°	0.9
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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