

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: P886126

Luminaire Tested: ML204LSFL95FS1E-TIR1D25NFL-TL2SDSLB-468LM-3000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886126
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-93)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D25NFL-TL2SDSLB-468LM-3000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3000K CCT
Ballast/Driver: -

Summary

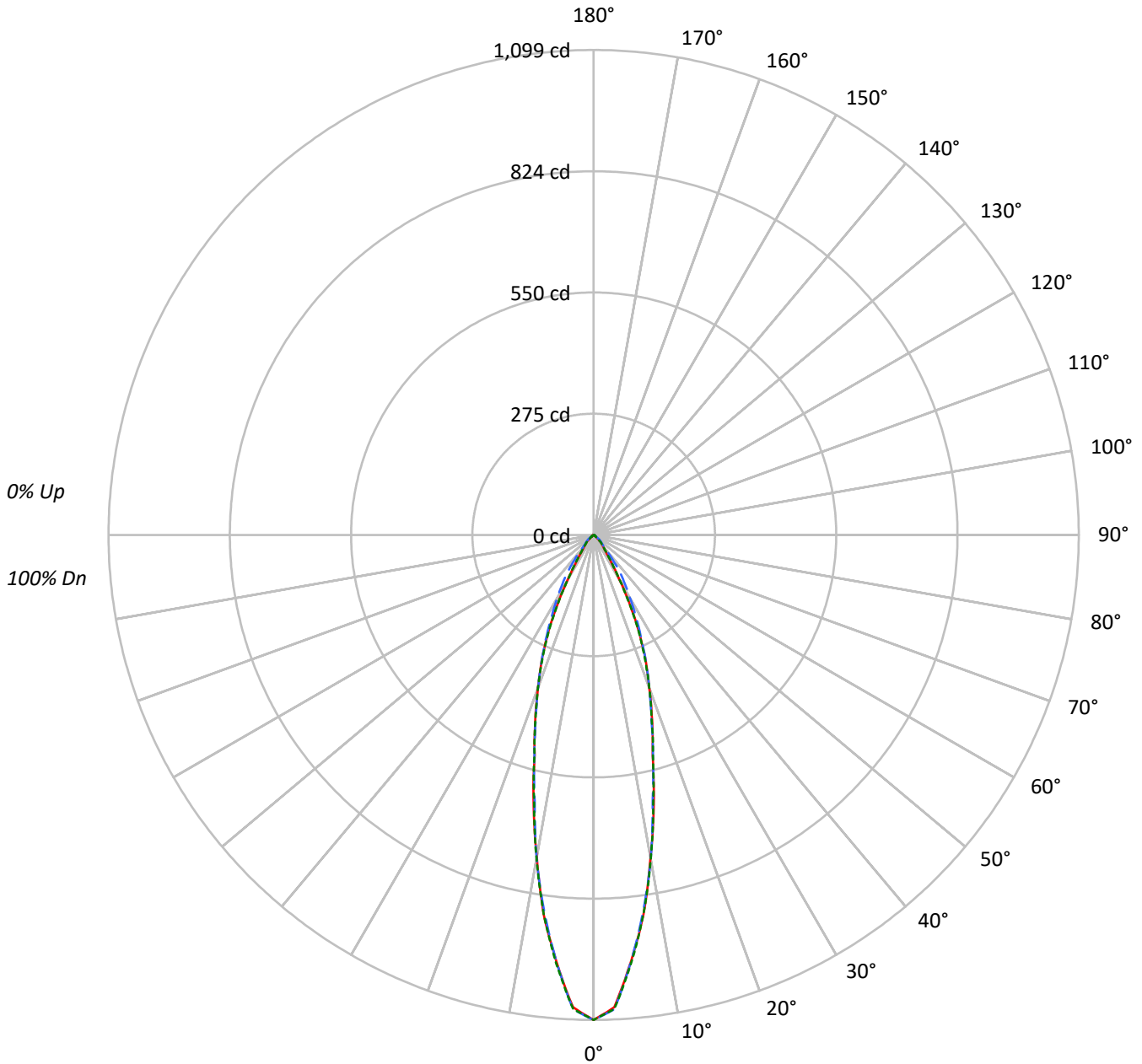
Lumens per Lamp: N/A
Luminaire Lumens: 415.2 lumens
Efficiency: N/A
Efficacy: 51.9 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.55
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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				
RC	80					70					50					30				
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	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	97	95		
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	90		
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	90	88	86	85		
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	80		
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76		
6	92	84	79	75	91	84	79	75	82	78	75	81	77	74	80	76	74	73		
7	89	80	75	72	87	80	75	71	79	74	71	78	74	71	76	73	70	69		
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66		
9	82	74	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63		
10	79	70	65	62	78	70	65	62	69	65	62	69	65	62	68	64	62	60		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	425939	425939	425939
5°	377349	377349	379061
10°	292078	292786	293455
15°	207123	208167	208167
20°	151793	151463	151793
25°	104068	107403	102956
30°	51948	73247	52306
35°	24173	48346	25828
40°	16187	21903	16187
45°	10905	13755	10467
50°	4160	10972	4160
55°	2905	3513	2905
60°	2015	1317	2015
65°	1559	825	1559
70°	1020	1020	1020
75°	1347	1347	1347
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 13755 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.7	20.6
10°-20°	145.8	35.1
20°-30°	112.8	27.2
30°-40°	47.4	11.4
40°-50°	16.7	4.0
50°-60°	4.4	1.1
60°-70°	1.5	0.4
70°-80°	0.8	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°	344.4	83.0
0°-40°	391.8	94.4
0°-60°	412.9	99.4
0°-90°	415.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	415.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1099	1099	1099	1099	1099	
5°	970	974	970	972	974	86
15°	516	520	519	521	519	146
25°	243	251	251	250	241	109
35°	51	64	102	65	55	37
45°	20	22	25	21	19	14
55°	4	4	5	4	4	4
65°	2	2	1	2	2	2
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1099.2	1099.2	1099.2	1099.2	1099.2
2.5°	1071.5	1069.8	1075.8	1075.8	1075.0
5°	970.1	974.5	970.1	971.9	974.5
7.5°	867.1	863.6	860.1	861.0	866.2
10°	742.3	742.3	744.1	744.1	745.8
12.5°	628.9	618.5	617.6	623.7	623.7
15°	516.3	519.7	518.9	520.6	518.9
17.5°	440.0	435.7	434.8	438.3	437.4
20°	368.1	369.9	367.3	369.0	368.1
22.5°	307.5	306.6	307.5	308.4	302.3
25°	243.4	251.2	251.2	250.3	240.8
27.5°	176.7	195.8	203.6	192.3	174.1
30°	116.1	142.1	163.7	140.3	116.9
32.5°	77.1	94.4	131.7	95.3	78.8
35°	51.1	64.1	102.2	65.0	54.6
37.5°	39.0	46.8	71.0	45.9	39.8
40°	32.0	33.8	43.3	34.6	32.0
42.5°	26.0	26.9	30.3	26.9	26.0
45°	19.9	21.7	25.1	20.8	19.1
47.5°	9.5	14.7	21.7	13.9	12.1
50°	6.9	6.1	18.2	8.7	6.9
52.5°	5.2	4.3	13.0	4.3	5.2
55°	4.3	3.5	5.2	3.5	4.3
57.5°	3.5	2.6	2.6	2.6	3.5
60°	2.6	2.6	1.7	2.6	2.6
62.5°	2.6	1.7	1.7	1.7	2.6
65°	1.7	1.7	0.9	1.7	1.7
67.5°	1.7	0.9	0.9	0.9	1.7
70°	0.9	0.9	0.9	0.9	0.9
72.5°	0.9	0.9	0.9	0.9	0.9
75°	0.9	0.9	0.9	0.9	0.9
77.5°	0.9	0.9	0.0	0.9	0.9
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

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

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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