

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: P886118

Luminaire Tested: ML204LSFL95FS1E-TIR1D25NFL-TL2SDMWB-468LM-4000K

Issue Date: 6/20/2024

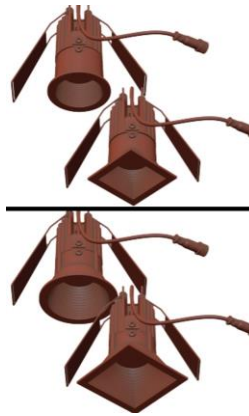
Test Information

Test Method: LM-79-2019
Report Number: P886118
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-92)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D25NFL-TL2SDMWB-468LM-4000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 4000K CCT
Ballast/Driver: -

Summary

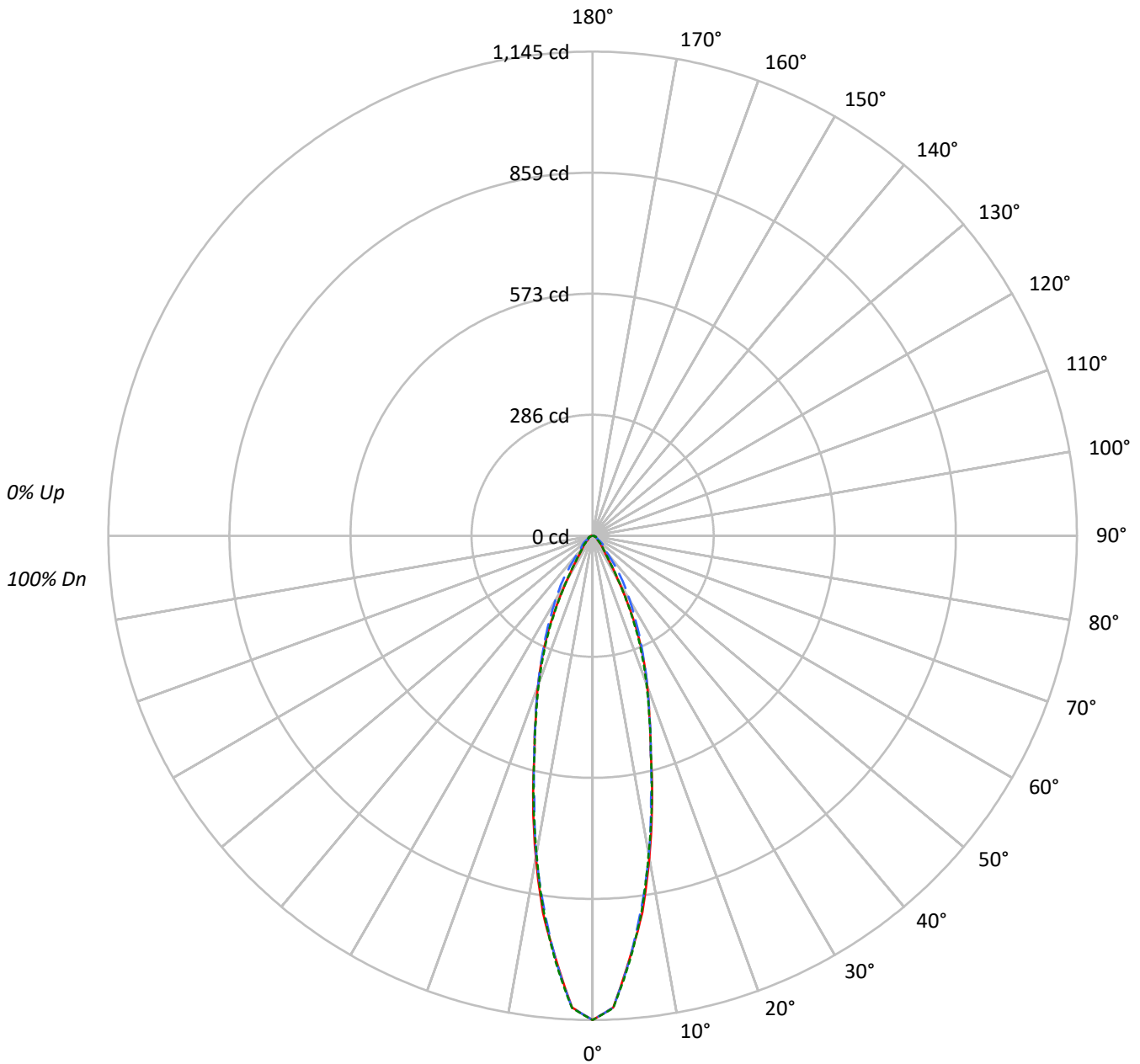
Lumens per Lamp: N/A
Luminaire Lumens: 458.2 lumens
Efficiency: N/A
Efficacy: 57.3 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.46 / 0.54
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P886118
CATALOG NUMBER: ML204LSFL95FS1E-TIR1D25NFL-TL2SDMWB-468LM-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P886118
 CATALOG NUMBER: ML204LSFL95FS1E-TIR1D25NFL-TL2SDMWB-468LM-4000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	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	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93						93													
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87						87													
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	82						82													
4	98	91	86	82	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	72						72													
6	90	81	76	72	88	81	75	71	79	74	71	78	74	70	76	73	70	69						69													
7	86	77	72	68	85	77	71	68	75	71	67	74	70	67	73	69	67	65						65													
8	82	74	68	64	81	73	68	64	72	67	64	71	67	64	70	66	63	62						62													
9	79	70	65	61	78	70	65	61	69	64	61	68	64	61	67	63	61	59						59													
10	76	67	62	58	75	67	62	58	66	61	58	65	61	58	65	61	58	57						57													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	443687	443687	443687
5°	389991	391080	392519
10°	303882	301718	300262
15°	212620	213342	212620
20°	155628	155628	152947
25°	105992	112320	102443
30°	52978	78214	54633
35°	25828	51184	27106
40°	18261	27619	18716
45°	14687	19783	13700
50°	8922	17844	8922
55°	8715	11215	8715
60°	8602	8602	8602
65°	8435	8435	8435
70°	7364	8384	8384
75°	8235	8235	8235
80°	8257	6248	8257
85°	8003	4001	8003

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 19783 cd/sqm



TEST NUMBER: P886118

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D25NFL-TL2SDMWB-468LM-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.6	19.3
10°-20°	149.5	32.6
20°-30°	115.5	25.2
30°-40°	51.4	11.2
40°-50°	23.6	5.2
50°-60°	13.0	2.8
60°-70°	9.2	2.0
70°-80°	5.7	1.2
80°-90°	1.8	0.4
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°	353.6	77.2
0°-40°	404.9	88.4
0°-60°	441.5	96.4
0°-90°	458.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	458.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1145	1145	1145	1145	1145	
5°	1003	1006	1005	1007	1009	89
15°	530	533	532	533	530	150
25°	248	259	263	253	240	111
35°	55	70	108	72	57	39
45°	27	30	36	30	25	20
55°	13	13	17	13	13	12
65°	9	9	9	9	9	9
75°	6	6	6	6	6	5
85°	2	2	1	2	2	2
90°	0	0	0	0	0	



TEST NUMBER: P886118

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D25NFL-TL2SDMWB-468LM-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1145.0	1145.0	1145.0	1145.0	1145.0
2.5°	1116.4	1115.4	1116.4	1118.2	1118.2
5°	1002.6	1006.3	1005.4	1007.2	1009.1
7.5°	899.0	890.7	885.1	887.0	892.5
10°	772.3	762.1	766.8	764.0	763.1
12.5°	649.3	639.1	637.3	640.0	645.6
15°	530.0	532.7	531.8	532.7	530.0
17.5°	446.7	445.8	446.7	446.7	444.0
20°	377.4	374.6	377.4	375.5	370.9
22.5°	312.6	316.3	314.5	315.4	304.3
25°	247.9	259.0	262.7	253.4	239.6
27.5°	179.4	199.8	212.7	195.2	173.9
30°	118.4	145.2	174.8	142.4	122.1
32.5°	80.5	99.9	142.4	101.7	82.3
35°	54.6	70.3	108.2	72.1	57.3
37.5°	43.5	52.7	77.7	53.6	44.4
40°	36.1	42.5	54.6	42.5	37.0
42.5°	31.4	35.1	41.6	35.1	32.4
45°	26.8	30.5	36.1	29.6	25.0
47.5°	19.4	24.0	32.4	23.1	20.3
50°	14.8	16.6	29.6	18.5	14.8
52.5°	13.9	13.9	24.0	13.9	13.9
55°	12.9	12.9	16.6	12.9	12.9
57.5°	12.0	12.0	12.9	12.9	12.0
60°	11.1	11.1	11.1	12.0	11.1
62.5°	10.2	10.2	10.2	10.2	10.2
65°	9.2	9.2	9.2	9.2	9.2
67.5°	8.3	8.3	8.3	8.3	8.3
70°	6.5	7.4	7.4	7.4	7.4
72.5°	5.5	6.5	6.5	6.5	5.5
75°	5.5	5.5	5.5	5.5	5.5
77.5°	4.6	4.6	4.6	4.6	3.7
80°	3.7	3.7	2.8	3.7	3.7
82.5°	1.8	2.8	1.8	2.8	1.8
85°	1.8	1.8	0.9	1.8	1.8
87.5°	0.9	0.9	0.9	0.9	0.9
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



Report Generated By 670245859 / DESKTOP-T8S5UU9

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

Scaled Data Report





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

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

Scaled Data Report



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

Scaled Data Report



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

Scaled Data Report



(END OF REPORT)