

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: P886180

Luminaire Tested: ML204LSFL95FS1E-TIR1D40FL-TL2SDSL-468LM-2700K

Issue Date: 6/20/2024

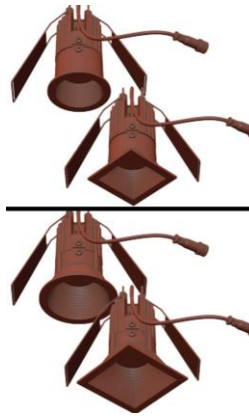
Test Information

Test Method: LM-79-2019
Report Number: P886180
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-96)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D40FL-TL2SDSL-468LM-2700K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, METALLIC SILVER TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 2700K CCT
Ballast/Driver: -

Summary

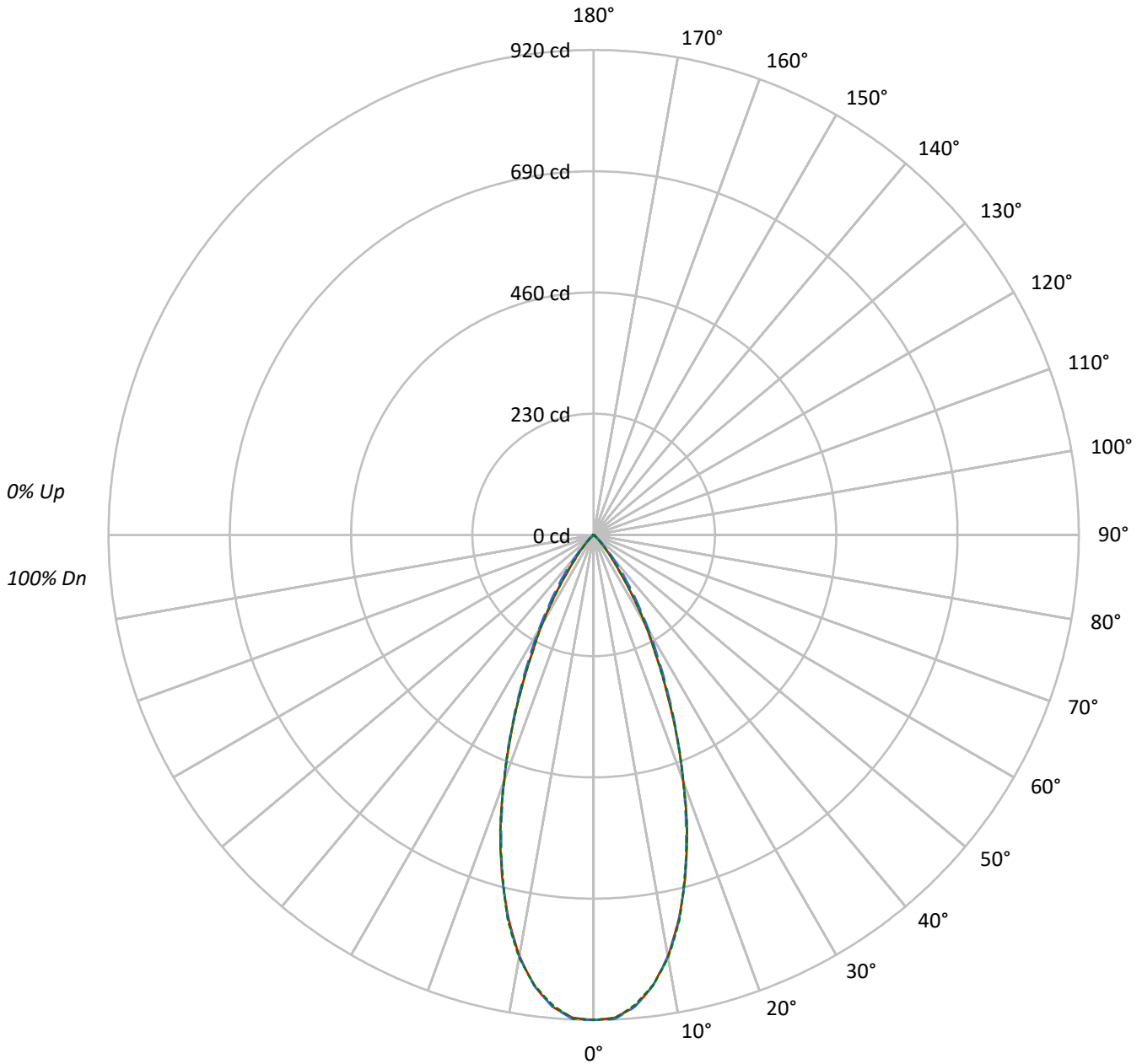
Lumens per Lamp: N/A
Luminaire Lumens: 504.1 lumens
Efficiency: N/A
Efficacy: 63.0 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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: P886180
CATALOG NUMBER: ML204LSFL95FS1E-TIR1D40FL-TL2SDSL-468LM-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P886180

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D40FL-TL2SDSL-468LM-2700K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	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	100	99	98	97	96	95								
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89								
3	105	99	94	91	103	97	93	90	95	91	89	93	90	87	90	88	86	85								
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80								
5	96	88	83	79	94	87	83	79	86	82	78	84	81	78	83	80	77	76								
6	92	84	79	75	90	83	78	74	82	77	74	80	76	74	79	76	73	72								
7	88	80	74	71	87	79	74	70	78	73	70	77	73	70	76	72	69	68								
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	72	69	66	65								
9	81	72	67	64	80	72	67	64	71	66	63	70	66	63	69	66	63	62								
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	89145	89145	89145
5°	87365	87365	87044
10°	79798	79876	80044
15°	67307	67136	66966
20°	51196	51278	51196
25°	34878	35862	35060
30°	21869	23267	22048
35°	10419	13695	10809
40°	4983	7006	4881
45°	1726	2987	1726
50°	633	1130	633
55°	287	287	287
60°	155	155	155
65°	183	183	183
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 2987 cd/sqm



TEST NUMBER: P886180

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D40FL-TL2SDSL-468LM-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.9	16.5
10°-20°	183.6	36.4
20°-30°	152.6	30.3
30°-40°	67.5	13.4
40°-50°	15.1	3.0
50°-60°	1.8	0.4
60°-70°	0.6	0.1
70°-80°	0.0	0.0
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°	419.1	83.1
0°-40°	486.7	96.5
0°-60°	503.6	99.9
0°-90°	504.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	504.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	920	920	920	920	920	
5°	898	898	898	898	895	83
15°	671	667	669	667	668	184
25°	326	333	336	334	328	150
35°	88	102	116	102	91	61
45°	13	17	22	16	13	12
55°	2	2	2	2	2	2
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P886180

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D40FL-TL2SDSL-468LM-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	920.2	920.2	920.2	920.2	920.2
2.5°	916.9	917.7	919.4	916.9	917.7
5°	898.4	898.4	898.4	897.6	895.1
7.5°	862.3	861.5	862.3	860.7	861.5
10°	811.2	813.7	812.0	812.0	813.7
12.5°	745.7	753.3	748.3	747.4	749.9
15°	671.1	666.9	669.4	666.9	667.7
17.5°	588.9	580.5	582.2	585.5	588.9
20°	496.6	498.3	497.4	498.3	496.6
22.5°	410.2	415.2	413.6	413.6	411.9
25°	326.3	333.0	335.5	333.9	328.0
27.5°	253.3	257.5	266.8	258.4	252.5
30°	195.5	199.6	208.0	198.8	197.1
32.5°	140.1	149.3	157.7	148.5	137.6
35°	88.1	102.3	115.8	102.3	91.4
37.5°	57.9	65.4	83.0	65.4	59.6
40°	39.4	43.6	55.4	42.8	38.6
42.5°	24.3	28.5	35.2	27.7	24.3
45°	12.6	16.8	21.8	15.9	12.6
47.5°	6.7	7.5	14.3	8.4	5.9
50°	4.2	4.2	7.5	4.2	4.2
52.5°	2.5	2.5	3.4	2.5	2.5
55°	1.7	1.7	1.7	1.7	1.7
57.5°	0.8	0.8	1.7	0.8	0.8
60°	0.8	0.8	0.8	0.8	0.8
62.5°	0.8	0.8	0.8	0.8	0.8
65°	0.8	0.8	0.8	0.8	0.8
67.5°	0.8	0.8	0.0	0.0	0.8
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
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



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)