

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: P886116

Luminaire Tested: ML204LSFL95FS1E-TIR1D25NFL-TL2SDMWB-468LM-3000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886116
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-3000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3000K CCT
Ballast/Driver: -

Summary

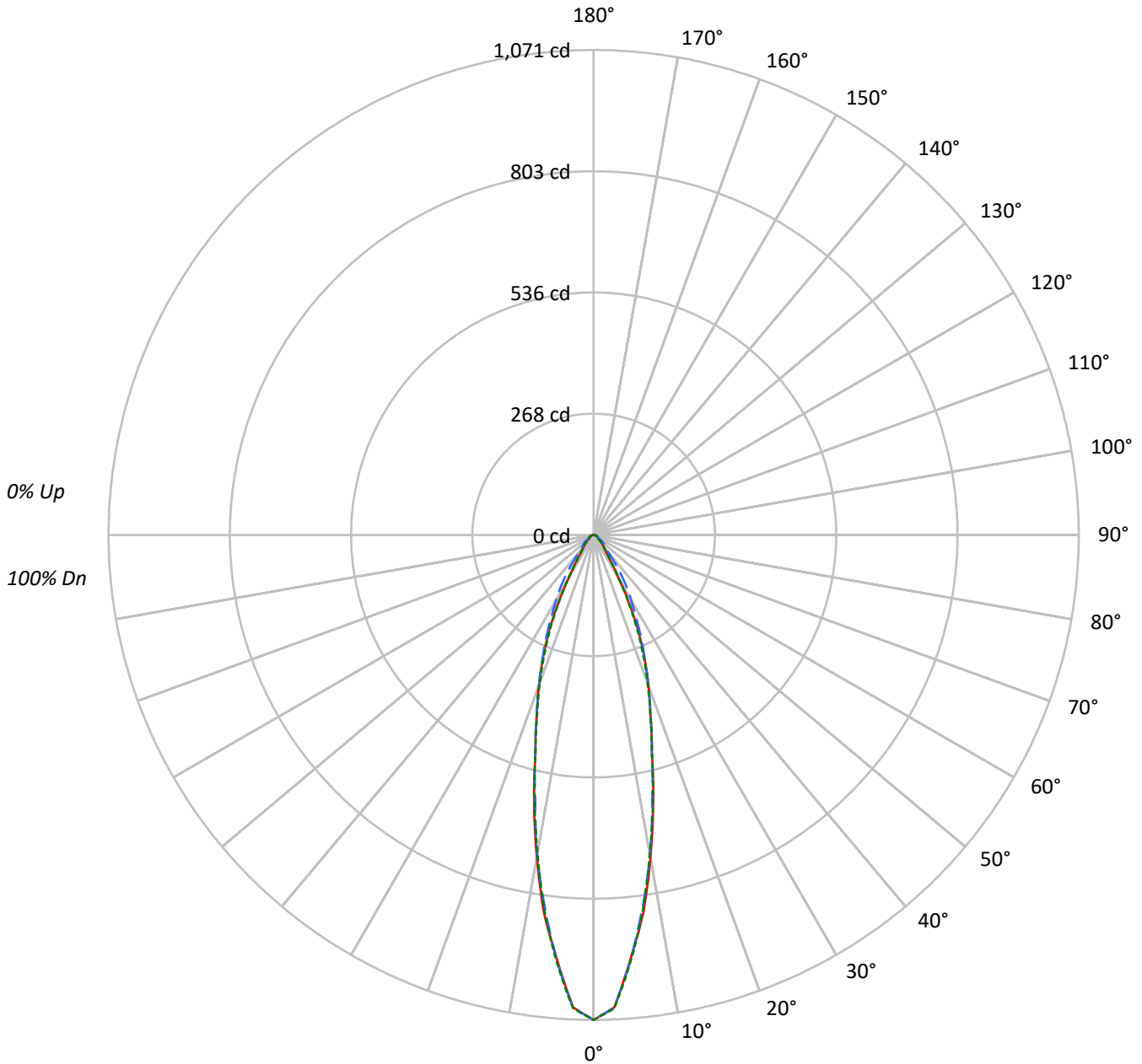
Lumens per Lamp: N/A
Luminaire Lumens: 428.7 lumens
Efficiency: N/A
Efficacy: 53.6 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.46 / 0.54
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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



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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									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																			
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93																			
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87																			
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	82																			
4	98	91	86	81	96	90	85	81	88	83	80	86	82	79	84	81	78	77																			
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	72																			
6	90	81	76	72	88	81	75	71	79	74	71	78	74	70	76	73	70	69																			
7	86	77	72	68	85	77	71	68	75	71	67	74	70	67	73	69	67	65																			
8	82	74	68	64	81	73	68	64	72	67	64	71	67	64	70	66	63	62																			
9	79	70	65	61	78	70	65	61	69	64	61	68	64	61	67	63	60	59																			
10	76	67	62	58	75	67	62	58	66	61	58	65	61	58	65	61	58	57																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	415089	415089	415089
5°	364824	365835	367197
10°	284287	282241	280864
15°	198900	199582	198900
20°	145566	145566	143092
25°	99151	105051	95816
30°	49577	73157	51098
35°	24173	47873	25355
40°	17047	25849	17502
45°	13755	18468	12823
50°	8319	16699	8319
55°	8175	10539	8175
60°	8060	8060	8060
65°	7977	7977	7977
70°	6911	7818	7818
75°	7785	7785	7785
80°	7810	5802	7810
85°	7558	4001	7558

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 18468 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.9	19.3
10°-20°	139.9	32.6
20°-30°	108.0	25.2
30°-40°	48.0	11.2
40°-50°	22.1	5.2
50°-60°	12.2	2.8
60°-70°	8.6	2.0
70°-80°	5.4	1.2
80°-90°	1.7	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°	330.8	77.2
0°-40°	378.8	88.4
0°-60°	413.1	96.4
0°-90°	428.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	428.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1071	1071	1071	1071	1071	
5°	938	941	940	942	944	83
15°	496	498	498	498	496	141
25°	232	242	246	237	224	104
35°	51	66	101	68	54	37
45°	25	29	34	28	23	18
55°	12	12	16	12	12	11
65°	9	9	9	9	9	8
75°	5	5	5	5	5	5
85°	2	2	1	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1071.2	1071.2	1071.2	1071.2	1071.2
2.5°	1044.4	1043.5	1044.4	1046.1	1046.1
5°	937.9	941.4	940.5	942.3	944.0
7.5°	841.0	833.2	828.1	829.8	835.0
10°	722.5	713.0	717.3	714.7	713.8
12.5°	607.4	597.9	596.2	598.8	604.0
15°	495.8	498.4	497.5	498.4	495.8
17.5°	417.9	417.1	417.9	417.9	415.3
20°	353.0	350.4	353.0	351.3	347.0
22.5°	292.5	295.9	294.2	295.1	284.7
25°	231.9	242.3	245.7	237.1	224.1
27.5°	167.9	186.9	199.0	182.6	162.7
30°	110.8	135.8	163.5	133.3	114.2
32.5°	75.3	93.4	133.3	95.2	77.0
35°	51.1	65.8	101.2	67.5	53.6
37.5°	40.7	49.3	72.7	50.2	41.5
40°	33.7	39.8	51.1	39.8	34.6
42.5°	29.4	32.9	38.9	32.9	30.3
45°	25.1	28.6	33.7	27.7	23.4
47.5°	18.2	22.5	30.3	21.6	19.0
50°	13.8	15.6	27.7	17.3	13.8
52.5°	13.0	13.0	22.5	13.0	13.0
55°	12.1	12.1	15.6	12.1	12.1
57.5°	11.2	11.2	12.1	12.1	11.2
60°	10.4	10.4	10.4	11.2	10.4
62.5°	9.5	9.5	9.5	9.5	9.5
65°	8.7	8.7	8.7	8.7	8.7
67.5°	7.8	7.8	7.8	7.8	7.8
70°	6.1	6.9	6.9	6.9	6.9
72.5°	5.2	6.1	6.1	6.1	5.2
75°	5.2	5.2	5.2	5.2	5.2
77.5°	4.3	4.3	4.3	4.3	3.5
80°	3.5	3.5	2.6	3.5	3.5
82.5°	1.7	2.6	1.7	2.6	1.7
85°	1.7	1.7	0.9	1.7	1.7
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



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Scaled Data Report





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

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