

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: P886115

Luminaire Tested: ML204LSFL95FS1E-TIR1D25NFL-TL2SDMWB-468LM-2700K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886115
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-2700K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 2700K CCT
Ballast/Driver: -

Summary

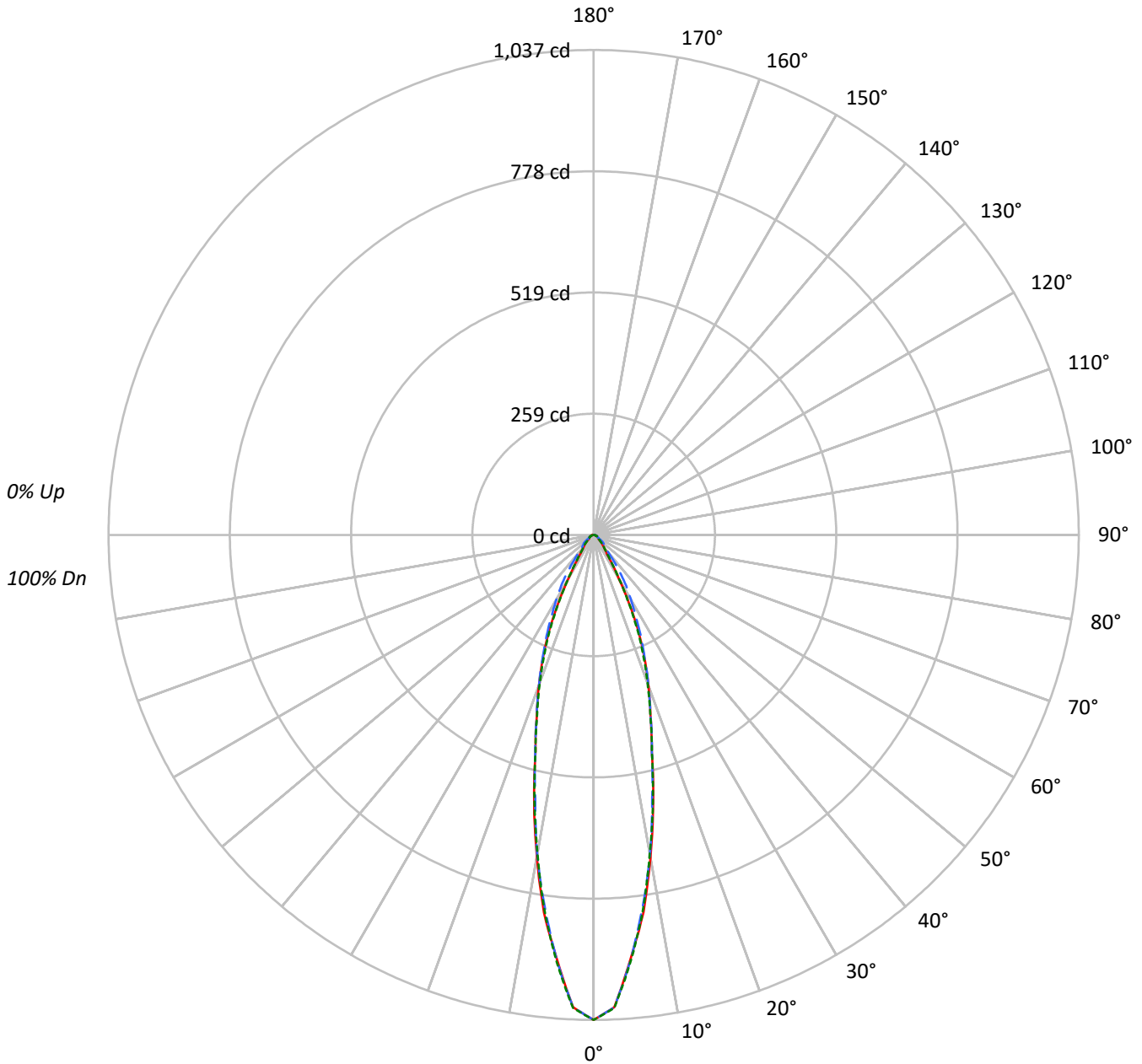
Lumens per Lamp: N/A
Luminaire Lumens: 415.0 lumens
Efficiency: N/A
Efficacy: 51.9 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.46 / 0.54
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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°	401837	401837	401837
5°	353193	354166	355488
10°	275198	273231	271893
15°	192561	193203	192561
20°	140947	140947	138514
25°	95987	101716	92737
30°	47966	70831	49488
35°	23369	46359	24551
40°	16541	24989	16946
45°	13317	17920	12385
50°	8078	16156	8078
55°	7904	10201	7904
60°	7827	7827	7827
65°	7702	7702	7702
70°	6685	7591	7591
75°	7486	7486	7486
80°	7587	5579	7587
85°	7558	3557	7558

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 17920 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.2	19.3
10°-20°	135.4	32.6
20°-30°	104.6	25.2
30°-40°	46.5	11.2
40°-50°	21.4	5.2
50°-60°	11.8	2.8
60°-70°	8.3	2.0
70°-80°	5.2	1.2
80°-90°	1.6	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°	320.2	77.2
0°-40°	366.7	88.4
0°-60°	399.9	96.4
0°-90°	415.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	415.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1037	1037	1037	1037	1037	
5°	908	911	910	912	914	81
15°	480	482	482	482	480	136
25°	224	234	238	230	217	100
35°	49	64	98	65	52	36
45°	24	28	33	27	23	18
55°	12	12	15	12	12	11
65°	8	8	8	8	8	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°	1037.0	1037.0	1037.0	1037.0	1037.0
2.5°	1011.0	1010.2	1011.0	1012.7	1012.7
5°	908.0	911.3	910.5	912.2	913.9
7.5°	814.2	806.6	801.6	803.3	808.3
10°	699.4	690.2	694.4	691.9	691.0
12.5°	588.0	578.8	577.1	579.6	584.7
15°	480.0	482.5	481.6	482.5	480.0
17.5°	404.6	403.7	404.6	404.6	402.1
20°	341.8	339.2	341.8	340.1	335.9
22.5°	283.1	286.5	284.8	285.6	275.6
25°	224.5	234.5	237.9	229.5	216.9
27.5°	162.5	180.9	192.7	176.7	157.5
30°	107.2	131.5	158.3	129.0	110.6
32.5°	72.9	90.5	129.0	92.1	74.5
35°	49.4	63.7	98.0	65.3	51.9
37.5°	39.4	47.7	70.4	48.6	40.2
40°	32.7	38.5	49.4	38.5	33.5
42.5°	28.5	31.8	37.7	31.8	29.3
45°	24.3	27.6	32.7	26.8	22.6
47.5°	17.6	21.8	29.3	20.9	18.4
50°	13.4	15.1	26.8	16.8	13.4
52.5°	12.6	12.6	21.8	12.6	12.6
55°	11.7	11.7	15.1	11.7	11.7
57.5°	10.9	10.9	11.7	11.7	10.9
60°	10.1	10.1	10.1	10.9	10.1
62.5°	9.2	9.2	9.2	9.2	9.2
65°	8.4	8.4	8.4	8.4	8.4
67.5°	7.5	7.5	7.5	7.5	7.5
70°	5.9	6.7	6.7	6.7	6.7
72.5°	5.0	5.9	5.9	5.9	5.0
75°	5.0	5.0	5.0	5.0	5.0
77.5°	4.2	4.2	4.2	4.2	3.4
80°	3.4	3.4	2.5	3.4	3.4
82.5°	1.7	2.5	1.7	2.5	1.7
85°	1.7	1.7	0.8	1.7	1.7
87.5°	0.8	0.8	0.8	0.8	0.8
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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