

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: P886175

Luminaire Tested: ML204LSFL95FS1E-TIR1D40FL-TL2SDMWB-468LM-2700K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886175
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-98)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D40FL-TL2SDMWB-468LM-2700K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE WHITE BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 2700K CCT
Ballast/Driver: -

Summary

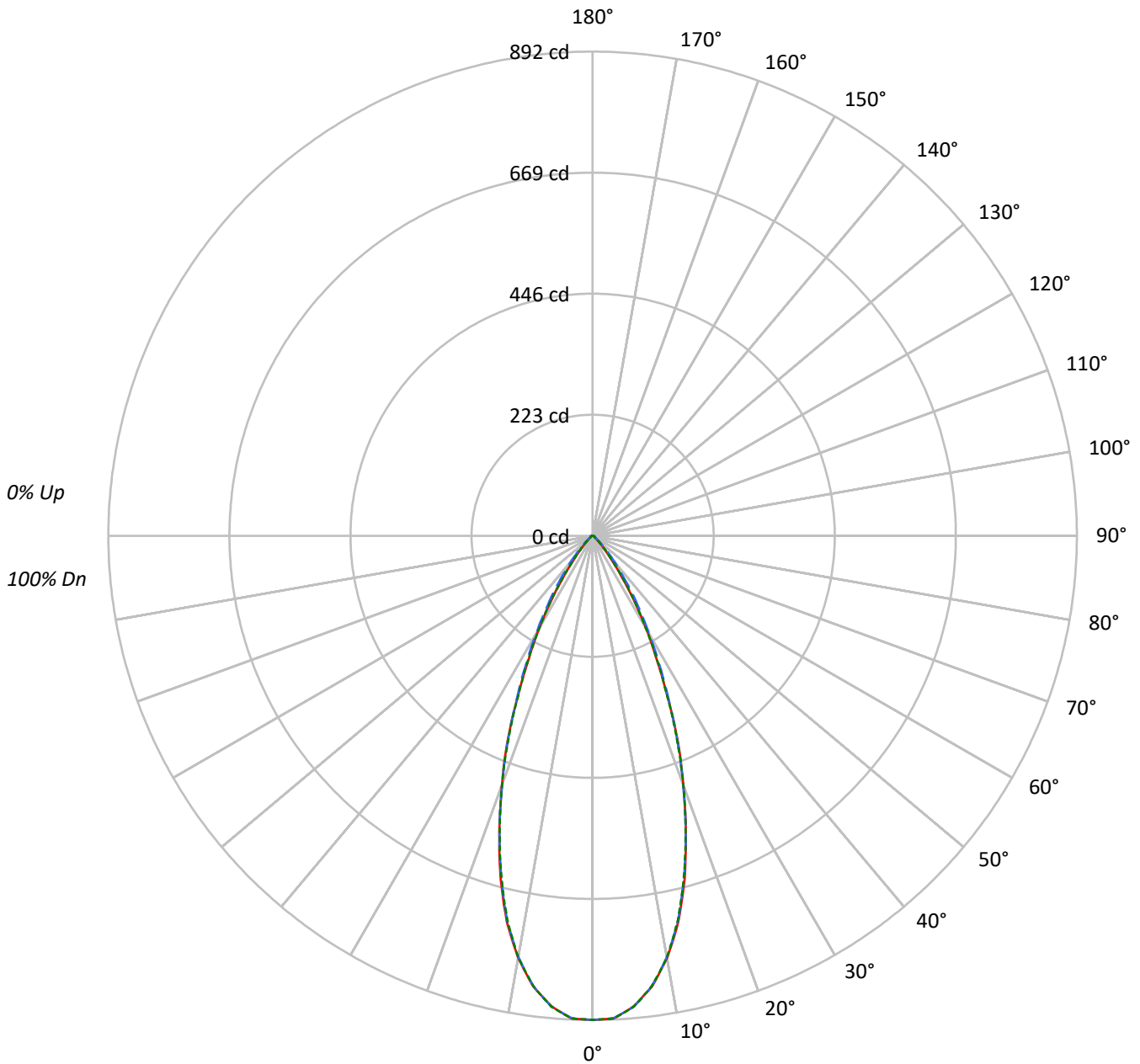
Lumens per Lamp: N/A
Luminaire Lumens: 512.3 lumens
Efficiency: N/A
Efficacy: 64.0 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.69
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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



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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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	92	90	88																			
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	85	83																			
4	99	92	87	83	97	91	86	83	89	85	82	87	83	81	85	82	80	78																			
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74																			
6	91	82	77	73	89	82	76	73	80	76	72	79	75	72	78	74	71	70																			
7	87	78	73	69	85	78	72	69	76	72	68	75	71	68	74	70	68	66																			
8	83	74	69	65	82	74	69	65	73	68	65	72	68	64	71	67	64	63																			
9	80	71	65	62	79	70	65	62	69	65	61	69	64	61	68	64	61	60																			
10	76	68	62	59	75	67	62	59	66	62	59	66	61	58	65	61	58	57																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	86403	86403	86403
5°	84613	84701	84701
10°	77683	77515	77594
15°	65662	65240	65160
20°	50299	50206	50381
25°	34675	35210	34590
30°	22037	23256	21757
35°	11401	14180	11803
40°	5299	7841	5514
45°	2411	3795	2521
50°	1130	2020	1266
55°	844	1132	844
60°	814	814	814
65°	779	779	779
70°	708	963	708
75°	936	936	936
80°	948	948	948
85°	889	889	889

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 3795 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.5	15.7
10°-20°	179.0	34.9
20°-30°	151.2	29.5
30°-40°	70.4	13.7
40°-50°	19.0	3.7
50°-60°	5.5	1.1
60°-70°	3.6	0.7
70°-80°	2.4	0.5
80°-90°	0.7	0.1
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°	410.7	80.2
0°-40°	481.1	93.9
0°-60°	505.6	98.7
0°-90°	512.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	512.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	892	892	892	892	892	
5°	870	872	871	871	871	81
15°	655	653	650	650	650	179
25°	324	330	329	330	324	150
35°	96	108	120	110	100	64
45°	18	22	28	22	18	15
55°	5	6	7	6	5	5
65°	3	3	3	3	3	4
75°	2	2	2	2	2	2
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	891.9	891.9	891.9	891.9	891.9
2.5°	890.3	889.4	889.4	889.4	890.3
5°	870.1	871.8	871.0	871.0	871.0
7.5°	837.4	836.6	836.6	836.6	836.6
10°	789.7	788.8	788.0	791.3	788.8
12.5°	729.3	729.3	726.8	727.6	725.1
15°	654.7	653.0	650.5	649.7	649.7
17.5°	570.9	570.9	570.9	567.5	569.2
20°	487.9	490.4	487.0	490.4	488.7
22.5°	410.8	408.2	408.2	406.6	405.7
25°	324.4	330.3	329.4	330.3	323.6
27.5°	253.2	258.2	264.1	260.7	255.7
30°	197.0	199.5	207.9	201.2	194.5
32.5°	142.5	151.7	160.1	153.4	145.9
35°	96.4	108.1	119.9	109.8	99.8
37.5°	62.9	72.1	85.5	73.8	64.5
40°	41.9	46.1	62.0	47.8	43.6
42.5°	28.5	32.7	42.8	32.7	30.2
45°	17.6	21.8	27.7	21.8	18.4
47.5°	9.2	13.4	20.1	13.4	10.9
50°	7.5	8.4	13.4	8.4	8.4
52.5°	5.9	6.7	8.4	6.7	6.7
55°	5.0	5.9	6.7	5.9	5.0
57.5°	4.2	5.0	5.0	5.0	4.2
60°	4.2	4.2	4.2	4.2	4.2
62.5°	4.2	4.2	4.2	4.2	4.2
65°	3.4	3.4	3.4	3.4	3.4
67.5°	3.4	3.4	3.4	3.4	3.4
70°	2.5	3.4	3.4	3.4	2.5
72.5°	2.5	2.5	2.5	2.5	2.5
75°	2.5	2.5	2.5	2.5	2.5
77.5°	1.7	1.7	1.7	1.7	1.7
80°	1.7	1.7	1.7	1.7	1.7
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.8	0.8	0.8	0.8	0.8
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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