

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: P886238

Luminaire Tested: ML204LSFL95FS1E-TIR1D55WFL-TL2SDMWB-468LM-4000K

Issue Date: 6/20/2024

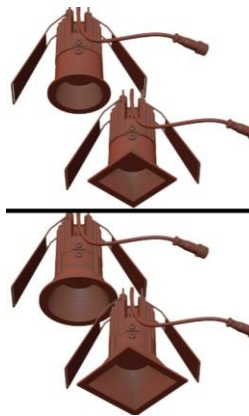
Test Information

Test Method: LM-79-2019
Report Number: P886238
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-104)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D55WFL-TL2SDMWB-468LM-4000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 4000K CCT
Ballast/Driver: -

Summary

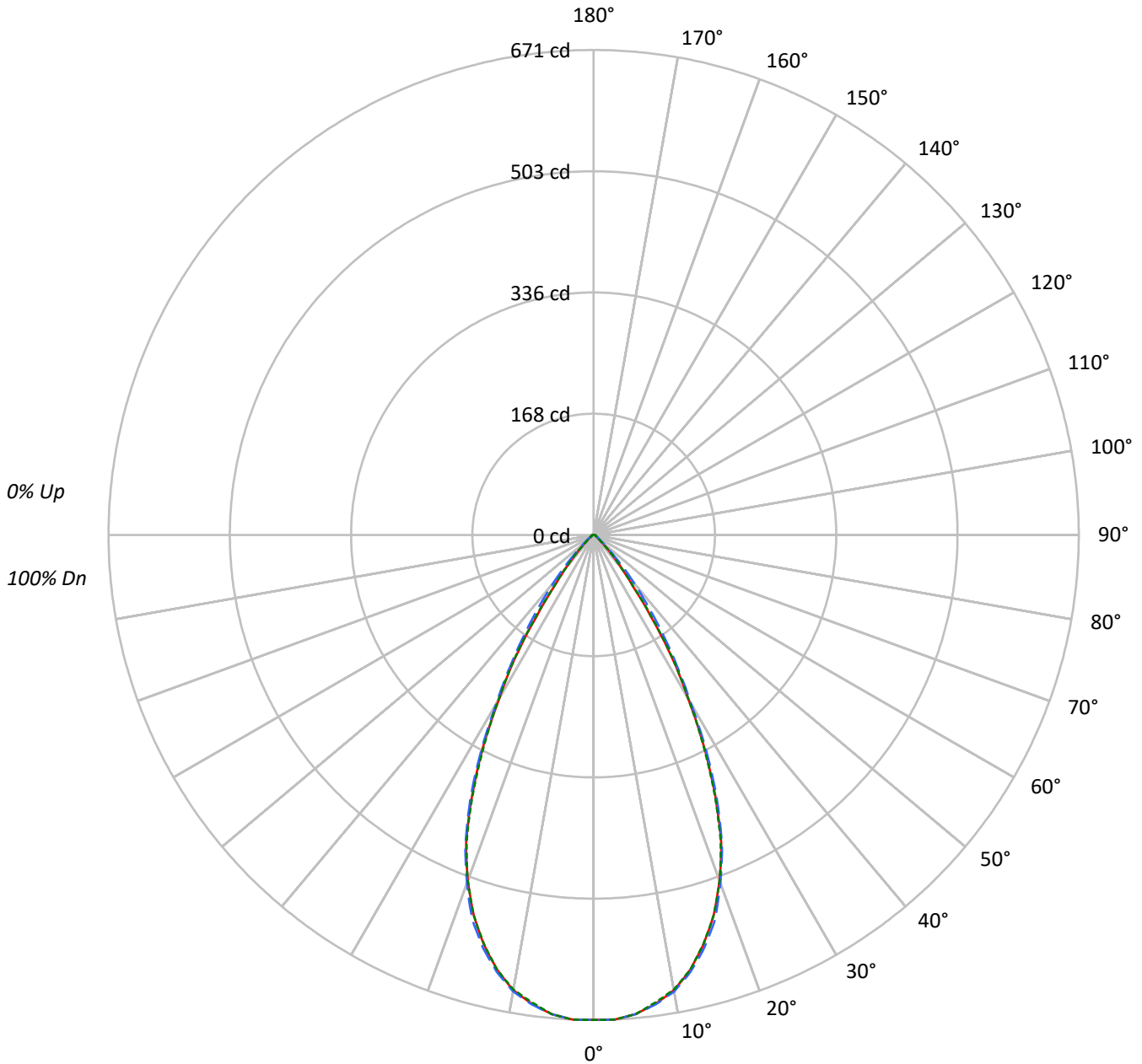
Lumens per Lamp: N/A
Luminaire Lumens: 541.8 lumens
Efficiency: N/A
Efficacy: 67.7 lumens/watt
Spacing Criteria (0/90/45): 0.87 / 0.87 / 0.83
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94																			
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	93	91	89	87																			
3	103	96	92	88	101	95	91	87	92	89	86	90	87	84	88	85	83	81																			
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	78	76																			
5	93	85	79	75	91	84	79	75	82	77	74	80	76	73	79	75	73	71																			
6	88	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67																			
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63																			
8	80	71	65	61	79	71	65	61	69	64	61	68	64	61	67	63	60	59																			
9	77	67	62	58	76	67	61	58	66	61	57	65	60	57	64	60	57	56																			
10	73	64	58	54	72	63	58	54	63	58	54	62	57	54	61	57	54	53																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	260051	260051	260051
5°	258866	258866	258866
10°	251668	252376	251314
15°	235406	237291	235045
20°	209937	211462	209937
25°	170168	172563	168971
30°	116783	120094	117633
35°	65234	77485	68308
40°	29946	43553	30452
45°	13207	19783	13207
50°	6149	8922	6149
55°	3783	4999	3783
60°	2867	3565	2867
65°	3393	3393	3393
70°	3172	3172	3172
75°	2845	2845	2845
80°	4240	4240	4240
85°	4001	4001	4001

MAXIMUM LUMINANCE 45°-90°:

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.7	11.6
10°-20°	163.7	30.2
20°-30°	179.9	33.2
30°-40°	97.3	18.0
40°-50°	25.2	4.7
50°-60°	6.3	1.2
60°-70°	3.6	0.7
70°-80°	2.4	0.4
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°	406.3	75.0
0°-40°	503.6	93.0
0°-60°	535.1	98.8
0°-90°	541.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	541.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	671	671	671	671	671	
5°	666	665	666	665	666	63
15°	587	590	592	587	586	163
25°	398	401	404	402	395	179
35°	138	156	164	156	144	90
45°	24	27	36	28	24	21
55°	6	6	7	6	6	5
65°	4	4	4	4	4	3
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°	671.1	671.1	671.1	671.1	671.1
2.5°	671.1	671.1	671.1	670.1	671.1
5°	665.5	664.6	665.5	664.6	665.5
7.5°	654.4	655.3	655.3	655.3	652.5
10°	639.6	639.6	641.4	639.6	638.7
12.5°	616.4	618.3	619.2	615.5	616.4
15°	586.8	589.6	591.5	586.8	585.9
17.5°	551.7	553.5	558.1	555.4	551.7
20°	509.1	512.8	512.8	510.9	509.1
22.5°	460.9	463.7	463.7	461.9	459.1
25°	398.0	400.8	403.6	401.7	395.2
27.5°	331.4	330.4	337.8	333.2	328.6
30°	261.0	264.7	268.4	264.7	262.9
32.5°	203.6	209.2	213.8	210.1	205.5
35°	137.9	156.4	163.8	155.5	144.4
37.5°	88.9	103.7	120.3	103.7	90.7
40°	59.2	64.8	86.1	66.6	60.2
42.5°	39.8	43.5	57.4	44.4	40.7
45°	24.1	26.8	36.1	27.8	24.1
47.5°	14.8	16.7	22.2	16.7	14.8
50°	10.2	12.0	14.8	12.0	10.2
52.5°	7.4	8.3	10.2	8.3	7.4
55°	5.6	6.5	7.4	6.5	5.6
57.5°	4.6	4.6	5.6	4.6	4.6
60°	3.7	4.6	4.6	4.6	3.7
62.5°	3.7	3.7	3.7	3.7	3.7
65°	3.7	3.7	3.7	3.7	3.7
67.5°	2.8	3.7	3.7	3.7	2.8
70°	2.8	2.8	2.8	2.8	2.8
72.5°	2.8	2.8	2.8	2.8	2.8
75°	1.9	1.9	1.9	1.9	1.9
77.5°	1.9	1.9	1.9	1.9	1.9
80°	1.9	1.9	1.9	1.9	1.9
82.5°	0.9	0.9	0.9	0.9	0.9
85°	0.9	0.9	0.9	0.9	0.9
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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