

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: P886233

Luminaire Tested: ML204LSFL95FS1E-TIR1D55WFL-TL2SDMW-468LM-4000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886233
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-101)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D55WFL-TL2SDMW-468LM-4000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 4000K CCT
Ballast/Driver: -

Summary

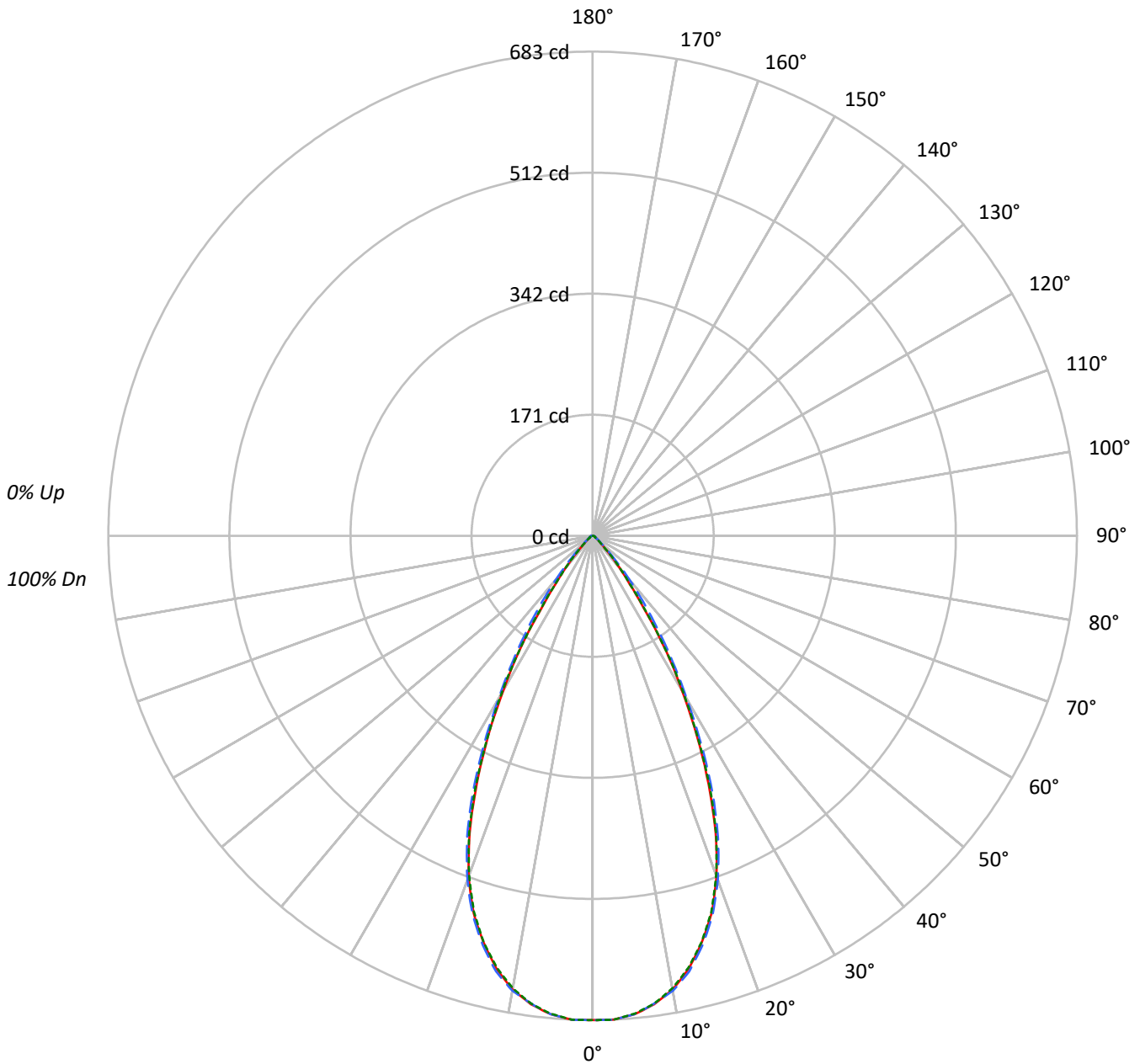
Lumens per Lamp: N/A
Luminaire Lumens: 537.6 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.82
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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	102	98	95	98	95	93	95	93	91	93	91	89	87																			
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81																			
4	98	90	85	81	96	89	84	80	87	83	80	85	82	79	83	80	78	76																			
5	93	85	79	75	92	84	79	75	82	78	74	81	77	73	79	76	73	71																			
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67																			
7	85	76	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63																			
8	81	71	66	62	79	71	65	61	70	65	61	69	64	61	68	64	61	59																			
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	60	57	56																			
10	74	64	59	55	73	64	58	55	63	58	55	62	58	54	61	57	54	53																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	264740	264740	264740
5°	263573	263573	263222
10°	255681	256429	254973
15°	238415	239899	238054
20°	210720	212988	209937
25°	165422	170981	167004
30°	112667	118439	114725
35°	61307	74884	63057
40°	29946	40265	29946
45°	12659	17755	13207
50°	6692	8380	6692
55°	4391	4999	4391
60°	3565	3565	3565
65°	3393	3393	3393
70°	3172	3172	3172
75°	2845	4192	2845
80°	4240	4240	4240
85°	4001	4001	4001

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 17755 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.8	11.9
10°-20°	165.5	30.8
20°-30°	177.7	33.1
30°-40°	93.0	17.3
40°-50°	23.9	4.4
50°-60°	6.5	1.2
60°-70°	3.8	0.7
70°-80°	2.5	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°	407.0	75.7
0°-40°	500.0	93.0
0°-60°	530.5	98.7
0°-90°	537.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	537.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	683	683	683	683	683	
5°	678	678	678	677	677	64
15°	594	595	598	594	593	165
25°	387	394	400	393	391	175
35°	130	146	158	145	133	86
45°	23	26	32	26	24	21
55°	6	6	7	6	6	6
65°	4	4	4	4	4	4
75°	2	3	3	3	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°	683.2	683.2	683.2	683.2	683.2
2.5°	683.2	683.2	683.2	682.2	683.2
5°	677.6	677.6	677.6	676.7	676.7
7.5°	666.5	666.5	665.6	666.5	665.6
10°	649.8	649.8	651.7	649.8	648.0
12.5°	625.8	626.7	629.5	625.8	623.9
15°	594.3	595.2	598.0	594.3	593.4
17.5°	558.2	561.9	561.9	559.1	556.3
20°	511.0	512.8	516.5	512.8	509.1
22.5°	453.6	462.8	462.8	458.2	455.4
25°	386.9	394.3	399.9	393.4	390.6
27.5°	319.4	325.8	331.4	325.8	321.2
30°	251.8	258.3	264.7	261.0	256.4
32.5°	193.5	200.9	208.3	201.8	194.4
35°	129.6	146.3	158.3	145.3	133.3
37.5°	86.1	95.3	115.7	97.2	87.0
40°	59.2	62.0	79.6	62.0	59.2
42.5°	38.0	41.7	51.8	41.7	38.9
45°	23.1	25.9	32.4	25.9	24.1
47.5°	15.7	16.7	19.4	16.7	15.7
50°	11.1	11.1	13.9	12.0	11.1
52.5°	8.3	8.3	10.2	9.3	8.3
55°	6.5	6.5	7.4	6.5	6.5
57.5°	4.6	5.6	5.6	5.6	4.6
60°	4.6	4.6	4.6	4.6	4.6
62.5°	3.7	4.6	4.6	4.6	3.7
65°	3.7	3.7	3.7	3.7	3.7
67.5°	3.7	3.7	3.7	3.7	3.7
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	2.8	2.8	2.8	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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