

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: P886239

Luminaire Tested: ML204LSFL95FS1E-TIR1D55WFL-TL2SDMWB-468LM-5000K

Issue Date: 6/20/2024

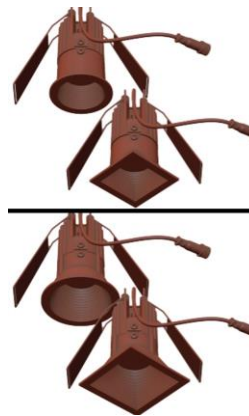
**Test Information**

Test Method: LM-79-2019  
Report Number: P886239  
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-5000K  
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE BAFFLED TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

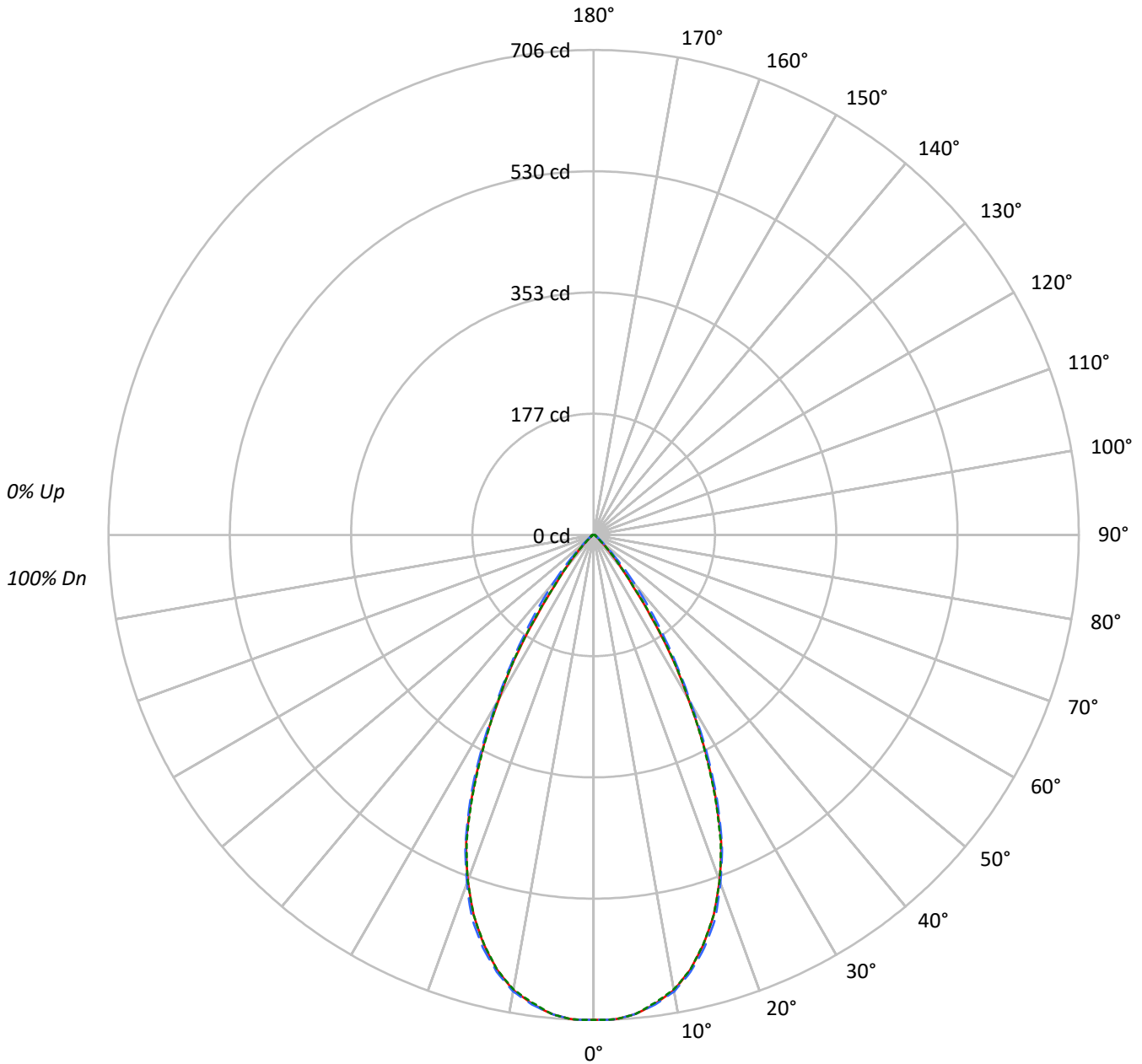
Lumens per Lamp: N/A  
Luminaire Lumens: 569.9 lumens  
Efficiency: N/A  
Efficacy: 71.2 lumens/watt  
Spacing Criteria (0/90/45): 0.87 / 0.87 / 0.83  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

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°	273575	273575	273575
5°	272325	272325	272325
10°	264771	265518	264377
15°	247682	249607	247281
20°	220864	222473	220864
25°	179019	181541	177779
30°	122869	126359	123719
35°	68639	81554	71856
40°	31514	45830	32020
45°	13865	20824	13865
50°	6450	9404	6450
55°	3918	5270	3918
60°	3022	3797	3022
65°	3576	3576	3576
70°	3286	3286	3286
75°	2845	2845	2845
80°	4240	4240	4240
85°	4446	4446	4446

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 20824 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.9	11.6
10°-20°	172.3	30.2
20°-30°	189.3	33.2
30°-40°	102.3	18.0
40°-50°	26.5	4.7
50°-60°	6.6	1.2
60°-70°	3.8	0.7
70°-80°	2.4	0.4
80°-90°	0.8	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°	427.5	75.0
0°-40°	529.8	93.0
0°-60°	562.9	98.8
0°-90°	569.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	569.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	706	706	706	706	706	
5°	700	699	700	699	700	66
15°	617	620	622	617	616	172
25°	419	422	425	423	416	188
35°	145	165	172	164	152	95
45°	25	28	38	29	25	23
55°	6	7	8	7	6	6
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°	706.0	706.0	706.0	706.0	706.0
2.5°	706.0	706.0	706.0	705.0	706.0
5°	700.1	699.2	700.1	699.2	700.1
7.5°	688.4	689.4	689.4	689.4	686.5
10°	672.9	672.9	674.8	672.9	671.9
12.5°	648.5	650.5	651.4	647.6	648.5
15°	617.4	620.3	622.2	617.4	616.4
17.5°	580.4	582.3	587.2	584.3	580.4
20°	535.6	539.5	539.5	537.5	535.6
22.5°	484.9	487.9	487.9	485.9	483.0
25°	418.7	421.6	424.6	422.6	415.8
27.5°	348.6	347.6	355.4	350.6	345.7
30°	274.6	278.5	282.4	278.5	276.5
32.5°	214.2	220.1	224.9	221.0	216.2
35°	145.1	164.6	172.4	163.6	151.9
37.5°	93.5	109.1	126.6	109.1	95.4
40°	62.3	68.2	90.6	70.1	63.3
42.5°	41.9	45.8	60.4	46.7	42.8
45°	25.3	28.2	38.0	29.2	25.3
47.5°	15.6	17.5	23.4	17.5	15.6
50°	10.7	12.7	15.6	12.7	10.7
52.5°	7.8	8.8	10.7	8.8	7.8
55°	5.8	6.8	7.8	6.8	5.8
57.5°	4.9	4.9	5.8	4.9	4.9
60°	3.9	4.9	4.9	4.9	3.9
62.5°	3.9	3.9	3.9	3.9	3.9
65°	3.9	3.9	3.9	3.9	3.9
67.5°	2.9	3.9	3.9	3.9	2.9
70°	2.9	2.9	2.9	2.9	2.9
72.5°	2.9	2.9	2.9	2.9	2.9
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°	1.0	1.0	1.0	1.0	1.0
85°	1.0	1.0	1.0	1.0	1.0
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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