

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: P886230

Luminaire Tested: ML204LSFL95FS1E-TIR1D55WFL-TL2SDMW-468LM-2700K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886230
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-2700K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 2700K CCT
Ballast/Driver: -

Summary

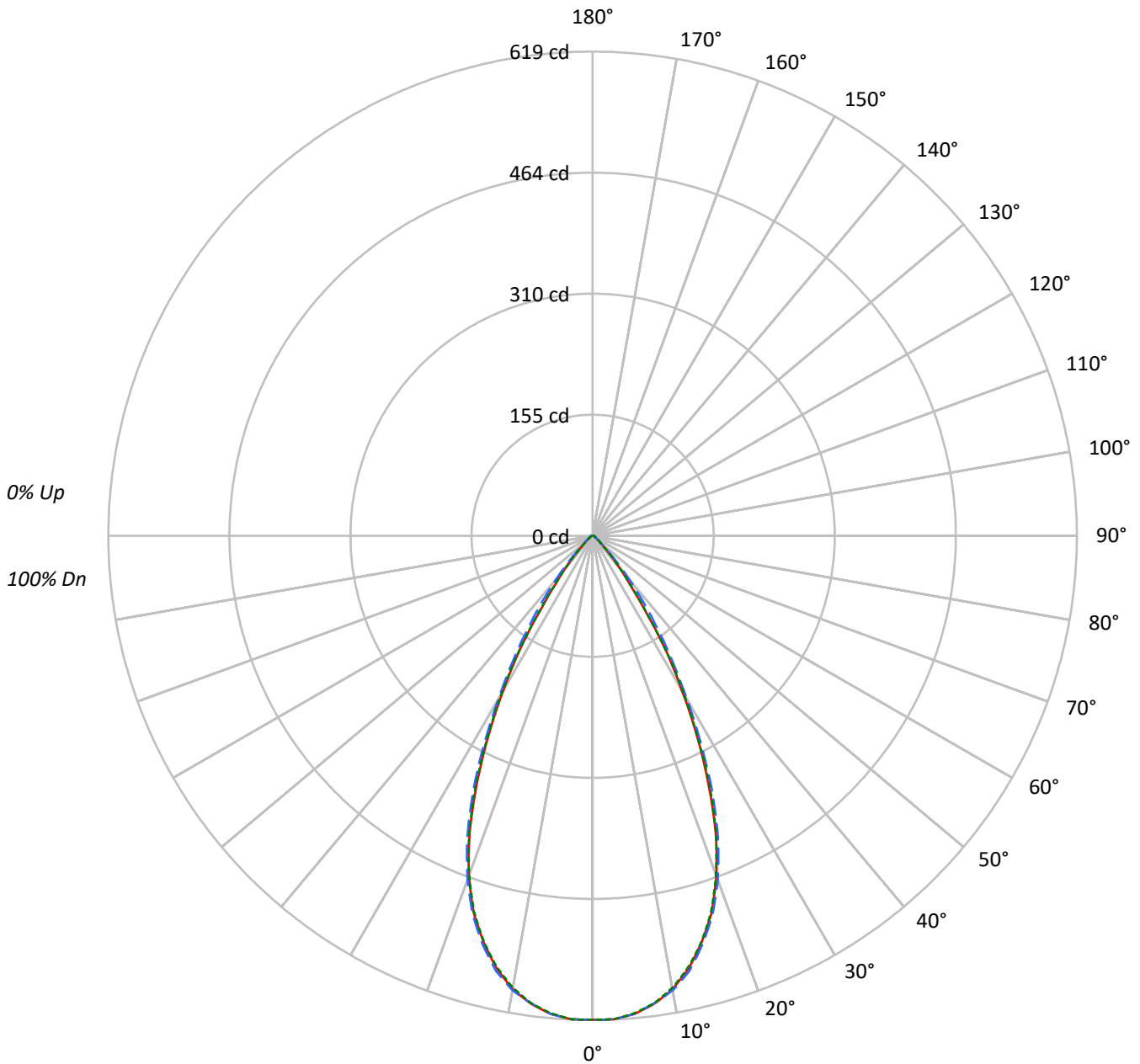
Lumens per Lamp: N/A
Luminaire Lumens: 486.9 lumens
Efficiency: N/A
Efficacy: 60.9 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.82
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94					94			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87					87			
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81					81			
4	98	90	85	81	96	89	84	80	87	83	80	85	82	79	83	80	78	76					76			
5	93	85	79	75	92	84	79	75	82	78	74	81	77	73	79	76	73	71					71			
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67					67			
7	85	76	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63					63			
8	81	71	66	62	79	71	65	61	70	65	61	69	64	61	68	64	61	59					59			
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	60	57	56					56			
10	74	64	59	55	73	64	58	55	63	58	55	62	58	54	61	57	54	53					53			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	239746	239746	239746
5°	238717	238717	238367
10°	231561	232230	230892
15°	215909	217273	215588
20°	190844	192906	190143
25°	149816	154862	151270
30°	102018	107297	103897
35°	55536	67835	57097
40°	27164	36471	27164
45°	11508	16057	11947
50°	6089	7596	6089
55°	3986	4526	3986
60°	3255	3255	3255
65°	3117	3117	3117
70°	2832	2832	2832
75°	2545	3743	2545
80°	3794	3794	3794
85°	3557	3557	3557

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 16057 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.8	11.9
10°-20°	149.9	30.8
20°-30°	160.9	33.1
30°-40°	84.3	17.3
40°-50°	21.7	4.4
50°-60°	5.9	1.2
60°-70°	3.5	0.7
70°-80°	2.3	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°	368.6	75.7
0°-40°	452.9	93.0
0°-60°	480.4	98.7
0°-90°	486.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	486.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	619	619	619	619	619	
5°	614	614	614	613	613	58
15°	538	539	542	538	537	150
25°	350	357	362	356	354	158
35°	117	132	143	132	121	78
45°	21	24	29	24	22	19
55°	6	6	7	6	6	5
65°	3	3	3	3	3	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°	618.7	618.7	618.7	618.7	618.7
2.5°	618.7	618.7	618.7	617.9	618.7
5°	613.7	613.7	613.7	612.8	612.8
7.5°	603.6	603.6	602.8	603.6	602.8
10°	588.5	588.5	590.2	588.5	586.8
12.5°	566.7	567.6	570.1	566.7	565.0
15°	538.2	539.1	541.6	538.2	537.4
17.5°	505.5	508.9	508.9	506.4	503.8
20°	462.8	464.4	467.8	464.4	461.1
22.5°	410.8	419.2	419.2	415.0	412.5
25°	350.4	357.1	362.2	356.3	353.8
27.5°	289.2	295.1	300.1	295.1	290.9
30°	228.0	233.9	239.8	236.4	232.2
32.5°	175.2	181.9	188.6	182.8	176.1
35°	117.4	132.5	143.4	131.6	120.7
37.5°	78.0	86.3	104.8	88.0	78.8
40°	53.7	56.2	72.1	56.2	53.7
42.5°	34.4	37.7	46.9	37.7	35.2
45°	21.0	23.5	29.3	23.5	21.8
47.5°	14.3	15.1	17.6	15.1	14.3
50°	10.1	10.1	12.6	10.9	10.1
52.5°	7.5	7.5	9.2	8.4	7.5
55°	5.9	5.9	6.7	5.9	5.9
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°	3.4	4.2	4.2	4.2	3.4
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	2.5	2.5	2.5	2.5
72.5°	2.5	2.5	2.5	2.5	2.5
75°	1.7	2.5	2.5	2.5	1.7
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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