Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P886117

Luminaire Tested: ML204LSFL95FS1E-TIR1D25NFL-TL2SDMWB-468LM-3500K

Issue Date: 6/20/2024

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Scaled Data Report

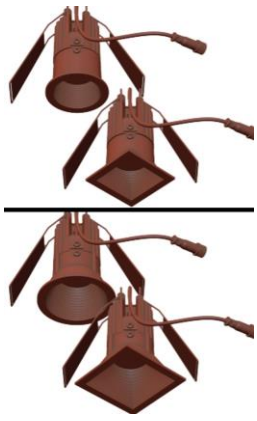
Test Information

Test Method:	LM-79-2019
Report Number:	P886117
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-92)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	6/20/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	HALO
Catalog Number:	ML204LSFL95FS1E-TIR1D25NFL-TL2SDMWB-468LM-3500K
Description:	2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE BAFFLED TRIM
Light Source:	(1) HCL SELECTABLE LUMEN LED 95CRI / 3500K CCT
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	443.1 lumens
Efficiency:	N/A
Efficacy:	55.4 lumens/watt
Spacing Criteria (0/90/45):	0.47 / 0.46 / 0.54
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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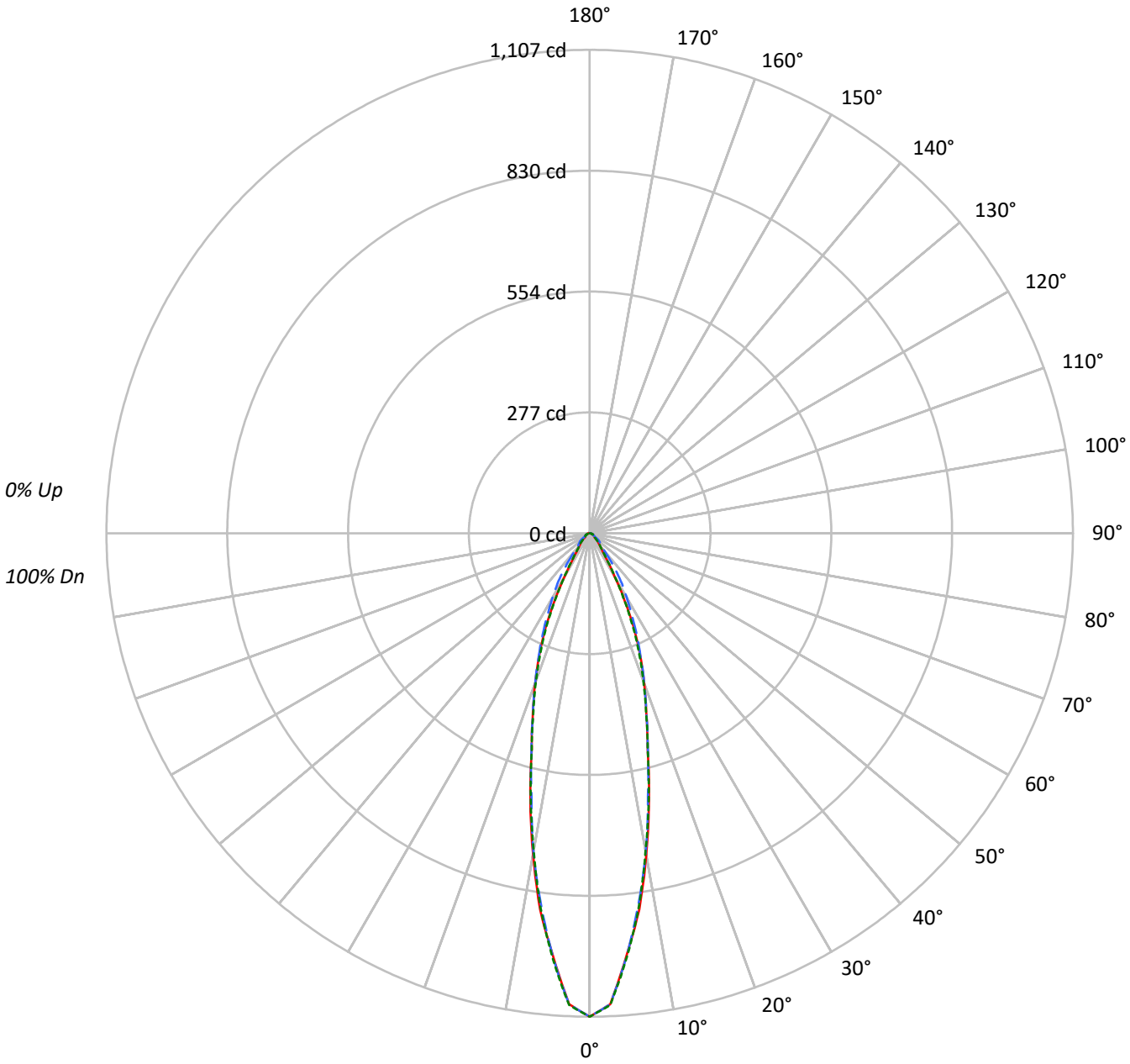
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	82
4	98	91	86	81	96	90	85	81	88	83	80	86	82	79	84	81	78	77
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	72
6	90	81	76	72	88	81	75	71	79	74	71	78	74	70	76	73	70	69
7	86	77	72	68	85	77	71	68	75	71	67	74	70	67	73	69	67	65
8	82	74	68	64	81	73	68	64	72	67	64	71	67	64	70	66	63	62
9	79	70	65	61	78	70	65	61	69	64	61	68	64	61	67	63	60	59
10	76	67	62	58	75	67	62	58	66	61	58	65	61	58	65	61	58	57

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	429039	429039	429039
5°	377116	378166	379527
10°	293849	291724	290307
15°	205599	206321	205599
20°	150473	150473	147875
25°	102486	108600	99022
30°	51233	75618	52843
35°	24977	49481	26207
40°	17654	26709	18109
45°	14193	19125	13207
50°	8621	17241	8621
55°	8445	10877	8445
60°	8292	8292	8292
65°	8160	8160	8160
70°	7138	8157	8157
75°	8085	8085	8085
80°	8033	6025	8033
85°	8003	4001	8003

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
Vertical Angle: 45°
Luminance: 19125 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.7	19.3
10°-20°	144.6	32.6
20°-30°	111.7	25.2
30°-40°	49.7	11.2
40°-50°	22.8	5.2
50°-60°	12.6	2.8
60°-70°	8.8	2.0
70°-80°	5.6	1.3
80°-90°	1.7	0.4
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°	341.9	77.2
0°-40°	391.6	88.4
0°-60°	427.0	96.4
0°-90°	443.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	443.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1107	1107	1107	1107	1107	
5°	970	973	972	974	976	86
15°	512	515	514	515	512	145
25°	240	250	254	245	232	107
35°	53	68	105	70	55	38
45°	26	30	35	29	24	19
55°	12	12	16	12	12	11
65°	9	9	9	9	9	9
75°	5	5	5	5	5	5
85°	2	2	1	2	2	2
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*1107.2*	*1107.2*	*1107.2*	*1107.2*	*1107.2*
2.5°	*1079.5*	1078.6	1079.5	1081.3	1081.3
5°	*969.5*	973.1	972.2	974.0	975.7
7.5°	*869.3*	861.3	855.9	857.7	863.1
10°	*746.8*	736.9	741.4	738.7	737.8
12.5°	*627.8*	618.0	616.2	618.9	624.3
15°	*512.5*	515.1	514.3	515.1	512.5
17.5°	*432.0*	431.1	432.0	432.0	429.3
20°	*364.9*	362.2	364.9	363.1	358.6
22.5°	*302.3*	305.9	304.1	305.0	294.2
25°	*239.7*	250.4	254.0	245.1	231.6
27.5°	*173.5*	193.2	205.7	188.7	168.1
30°	*114.5*	140.4	169.0	137.7	118.1
32.5°	*77.8*	96.6	137.7	98.4	79.6
35°	*52.8*	68.0	104.6	69.8	55.4
37.5°	*42.0*	51.0	75.1	51.9	42.9
40°	*34.9*	41.1	52.8	41.1	35.8
42.5°	*30.4*	34.0	40.2	34.0	31.3
45°	*25.9*	29.5	34.9	28.6	24.1
47.5°	*18.8*	23.3	31.3	22.4	19.7
50°	*14.3*	16.1	28.6	17.9	14.3
52.5°	*13.4*	13.4	23.3	13.4	13.4
55°	*12.5*	12.5	16.1	12.5	12.5
57.5°	*11.6*	11.6	12.5	12.5	11.6
60°	*10.7*	10.7	10.7	11.6	10.7
62.5°	*9.8*	9.8	9.8	9.8	9.8
65°	*8.9*	8.9	8.9	8.9	8.9
67.5°	*8.0*	8.0	8.0	8.0	8.0
70°	*6.3*	7.2	7.2	7.2	7.2
72.5°	*5.4*	6.3	6.3	6.3	5.4
75°	*5.4*	5.4	5.4	5.4	5.4
77.5°	*4.5*	4.5	4.5	4.5	3.6
80°	*3.6*	3.6	2.7	3.6	3.6
82.5°	*1.8*	2.7	1.8	2.7	1.8
85°	*1.8*	1.8	0.9	1.8	1.8
87.5°	*0.9*	0.9	0.9	0.9	0.9
90°	*0.0*	0.0	0.0	0.0	0.0

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Report Generated By 670245859 / DESKTOP-T8S5UU9

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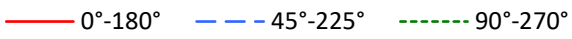

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(END OF REPORT)