

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: P677522

Luminaire Tested: ML408LSFL95FS1E-TL40R2GMW-3000K

Issue Date: 4/25/2023

Test Information

Test Method: LM-79-2019
Report Number: P677522
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2304-979-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML408LSFL95FS1E-TL40R2GMW-3000K
Description: RETROFIT, CONICAL LENS TRIM
Light Source: (1) SELECTABLE LUMEN LED 95CRI / 3000K CCT
Ballast/Driver: -

Summary

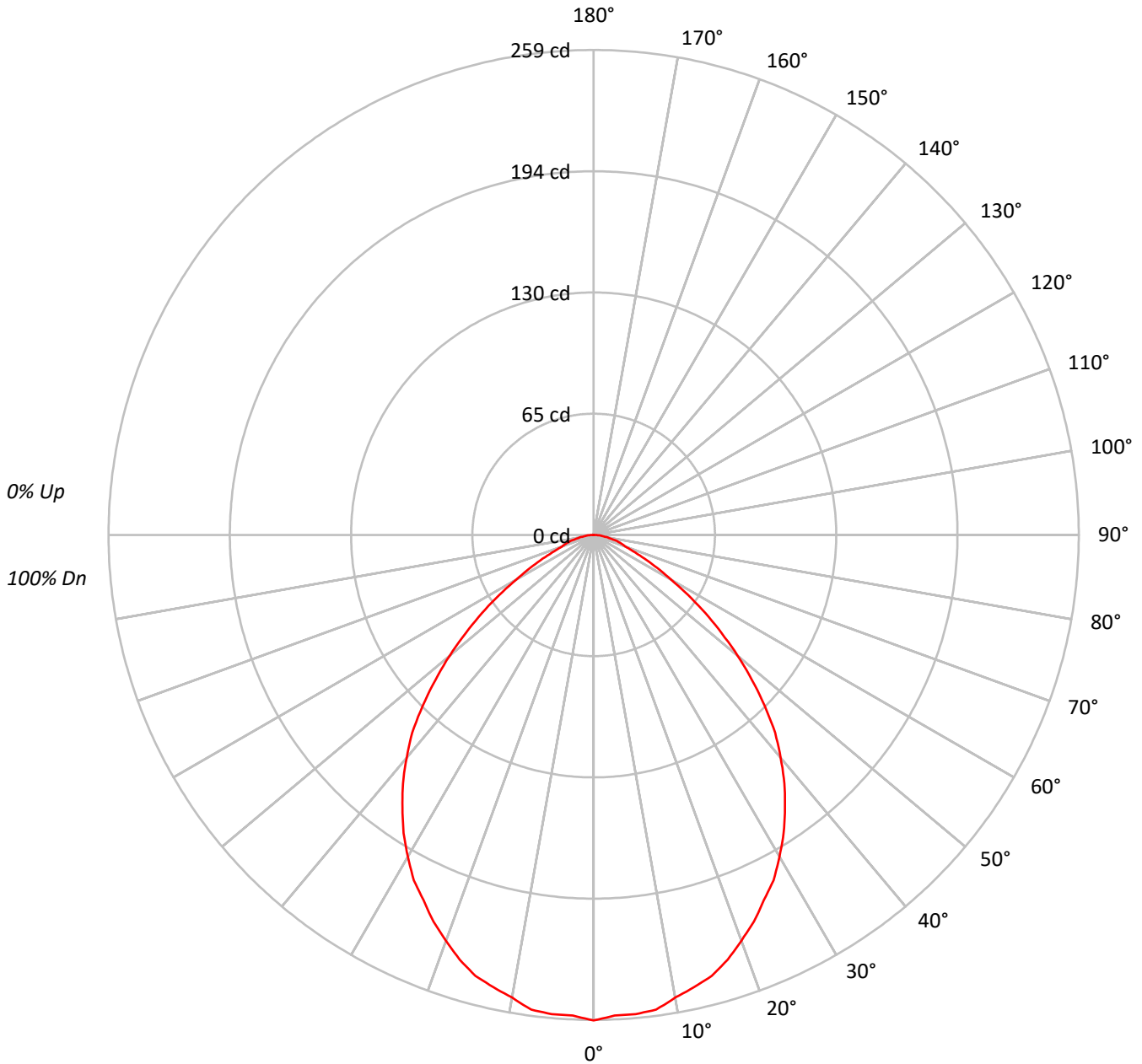
Lumens per Lamp: N/A
Luminaire Lumens: 514.9 lumens
Efficiency: N/A
Efficacy: 50.0 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.23
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 10.3
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67
4	88	77	70	64	86	76	69	63	74	67	62	71	66	62	69	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	47
7	70	58	50	45	69	57	50	45	56	49	44	55	48	44	53	48	44	42
8	66	53	46	40	64	53	45	40	52	45	40	50	44	40	49	44	40	38
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	31984
5°	31809
10°	31425
15°	31132
20°	30269
25°	29274
30°	28258
35°	26803
40°	25006
45°	22520
50°	19266
55°	15677
60°	11792
65°	8727
70°	6455
75°	6243
80°	5114
85°	5095

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22520 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.4	4.7
10°-20°	68.4	13.3
20°-30°	99.2	19.3
30°-40°	111.1	21.6
40°-50°	99.1	19.3
50°-60°	65.2	12.7
60°-70°	30.5	5.9
70°-80°	13.4	2.6
80°-90°	3.6	0.7
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°	192.0	37.3
0°-40°	303.1	58.9
0°-60°	467.5	90.8
0°-90°	514.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	514.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	259	
5°	257	24
15°	244	68
25°	215	99
35°	178	111
45°	129	99
55°	73	65
65°	30	30
75°	13	13
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	259.3
2.5°	256.9
5°	256.9
7.5°	255.7
10°	250.9
12.5°	247.4
15°	243.8
17.5°	237.8
20°	230.6
22.5°	223.5
25°	215.1
27.5°	207.9
30°	198.4
32.5°	188.8
35°	178.0
37.5°	167.3
40°	155.3
42.5°	143.4
45°	129.1
47.5°	114.7
50°	100.4
52.5°	86.0
55°	72.9
57.5°	59.7
60°	47.8
62.5°	38.2
65°	29.9
67.5°	22.7
70°	17.9
72.5°	15.5
75°	13.1
77.5°	9.6
80°	7.2
82.5°	4.8
85°	3.6
87.5°	1.2
90°	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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