

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: P677519

Luminaire Tested: ML406FLD2W1E-TL40R2GMW-2700K

Issue Date: 4/25/2023

Test Information

Test Method: LM-79-2019
Report Number: P677519
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: ML406FLD2W1E-TL40R2GMW-2700K
Description: RETROFIT, CONICAL LENS TRIM
Light Source: (1) SELECTABLE LUMEN LED D2W / 2700K CCT
Ballast/Driver: -

Summary

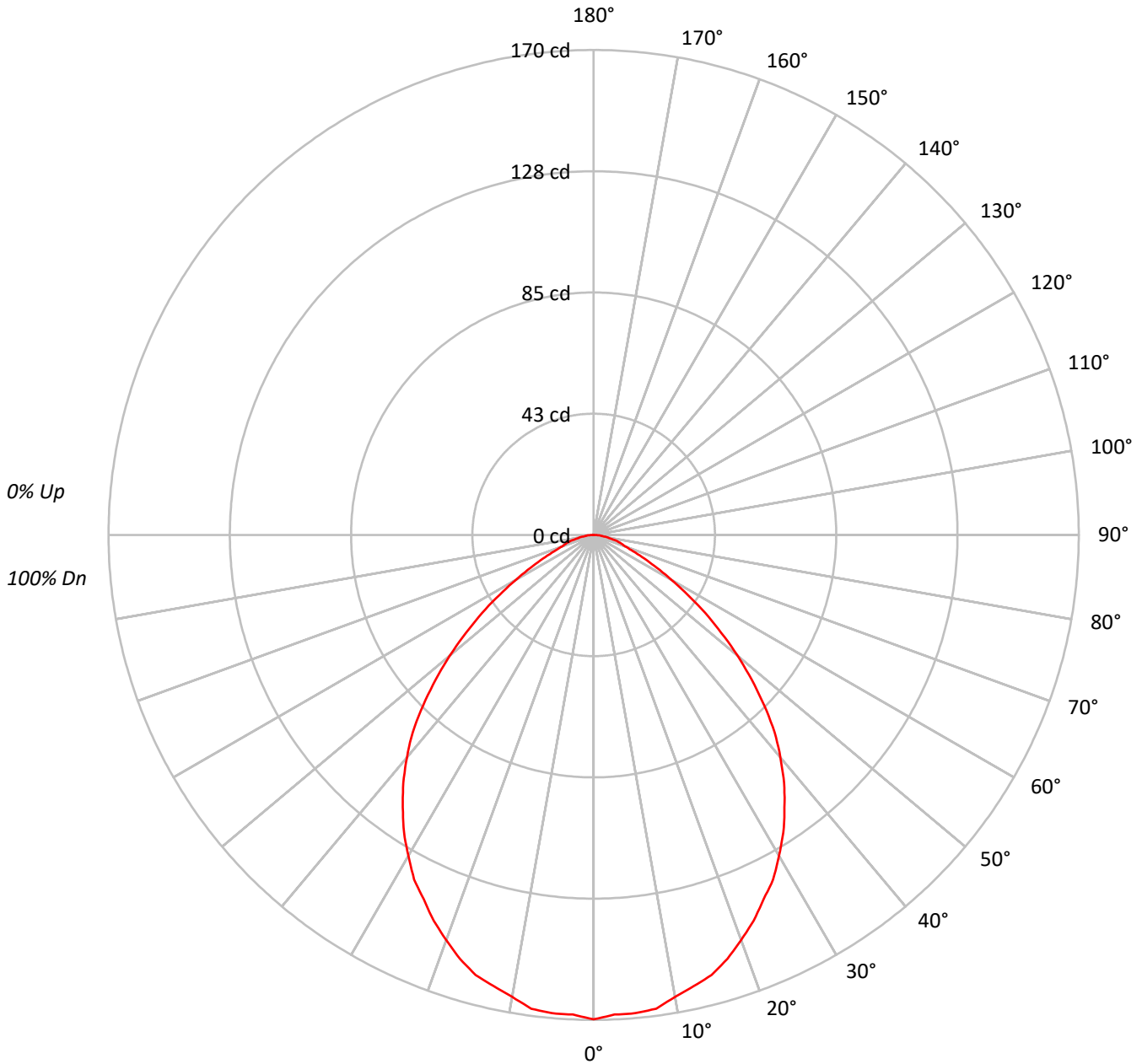
Lumens per Lamp: N/A
Luminaire Lumens: 337.3 lumens
Efficiency: N/A
Efficacy: 40.6 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.23
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 8.3
Input Voltage (V): NR
Input Current (A_{in}): 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
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°	20944
5°	20838
10°	20591
15°	20393
20°	19834
25°	19176
30°	18501
35°	17557
40°	16391
45°	14740
50°	12607
55°	10258
60°	7721
65°	5720
70°	4219
75°	4099
80°	3339
85°	3255

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14740 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.0	4.7
10°-20°	44.8	13.3
20°-30°	65.0	19.3
30°-40°	72.8	21.6
40°-50°	64.9	19.2
50°-60°	42.7	12.7
60°-70°	20.0	5.9
70°-80°	8.8	2.6
80°-90°	2.3	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°	125.8	37.3
0°-40°	198.6	58.9
0°-60°	306.2	90.8
0°-90°	337.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	337.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	170	
5°	168	16
15°	160	45
25°	141	65
35°	117	73
45°	84	65
55°	48	43
65°	20	20
75°	9	9
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	169.8
2.5°	168.3
5°	168.3
7.5°	167.5
10°	164.4
12.5°	162.0
15°	159.7
17.5°	155.8
20°	151.1
22.5°	146.4
25°	140.9
27.5°	136.2
30°	129.9
32.5°	123.7
35°	116.6
37.5°	109.6
40°	101.8
42.5°	93.9
45°	84.5
47.5°	75.1
50°	65.7
52.5°	56.4
55°	47.7
57.5°	39.1
60°	31.3
62.5°	25.0
65°	19.6
67.5°	14.9
70°	11.7
72.5°	10.2
75°	8.6
77.5°	6.3
80°	4.7
82.5°	3.1
85°	2.3
87.5°	0.8
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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(END OF REPORT)