

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: P643704

Luminaire Tested: ML5615LSVWFL9FS1E - 694TBZB - 900LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643704
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-114)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL9FS1E - 694TBZB - 900LM - 4000K
Description: ML56 RR, MILKY OPTIC, 6" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1202.8 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.27
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

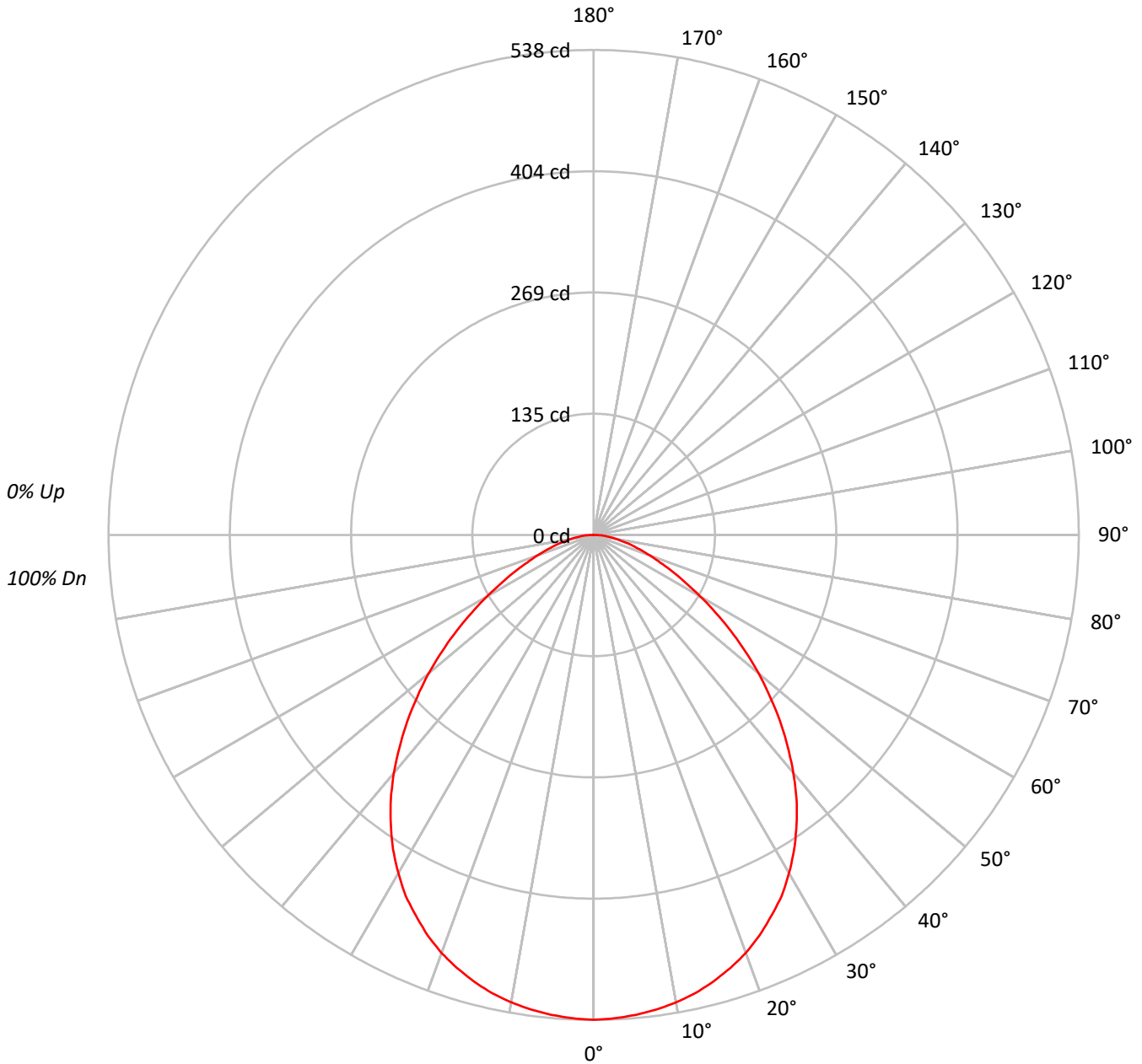
Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	100	100	100	100		
	1	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87	87	87	87	87	87		
	2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	82	79	76	74	74	74	74	74	74		
	3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64	64	64	64	64	64		
	4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56	56	56	56	56	56		
	5	80	68	59	53	78	67	59	53	64	58	52	63	57	52	61	56	51	49	49	49	49	49	49		
	6	74	61	53	47	72	60	53	47	59	52	46	57	51	46	56	50	46	44	44	44	44	44	44		
	7	69	56	48	42	67	55	47	42	54	47	41	52	46	41	51	45	41	39	39	39	39	39	39		
	8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35	35	35	35	35	35		
	9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32	32	32	32	32	32		
	10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29	29	29	29	29	29		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	29488
5°	29413
10°	29308
15°	29109
20°	28790
25°	28199
30°	27428
35°	26254
40°	24660
45°	22661
50°	20366
55°	17720
60°	14966
65°	12543
70°	10579
75°	9150
80°	7892
85°	7862

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22661 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.8	4.2
10°-20°	144.6	12.0
20°-30°	214.7	17.8
30°-40°	244.7	20.3
40°-50°	224.9	18.7
50°-60°	166.2	13.8
60°-70°	96.9	8.1
70°-80°	46.2	3.8
80°-90°	13.9	1.2
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°	410.1	34.1
0°-40°	654.7	54.4
0°-60°	1045.8	86.9
0°-90°	1202.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1202.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	538	
5°	534	51
15°	513	145
25°	466	215
35°	392	245
45°	292	225
55°	185	166
65°	97	97
75°	43	46
85°	12	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	537.9
2.5°	536.7
5°	534.5
7.5°	531.1
10°	526.5
12.5°	520.8
15°	512.9
17.5°	503.8
20°	493.5
22.5°	481.0
25°	466.2
27.5°	451.5
30°	433.3
32.5°	413.9
35°	392.3
37.5°	369.6
40°	344.6
42.5°	318.4
45°	292.3
47.5°	265.0
50°	238.8
52.5°	211.5
55°	185.4
57.5°	160.3
60°	136.5
62.5°	114.9
65°	96.7
67.5°	79.6
70°	66.0
72.5°	53.4
75°	43.2
77.5°	33.0
80°	25.0
82.5°	18.2
85°	12.5
87.5°	8.0
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)