

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: P683854

Luminaire Tested: CJB4069FS1EMW-5000K

Issue Date: 5/9/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P683854  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2304-981-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 5/9/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: CJB4069FS1EMW-5000K  
Description: 4IN J-BOX LED DOWNLIGHT WITH SELECTABLE CCT  
Light Source: (1) 5000K CCT, 93 CRI LEDS  
Ballast/Driver: -

**Summary**

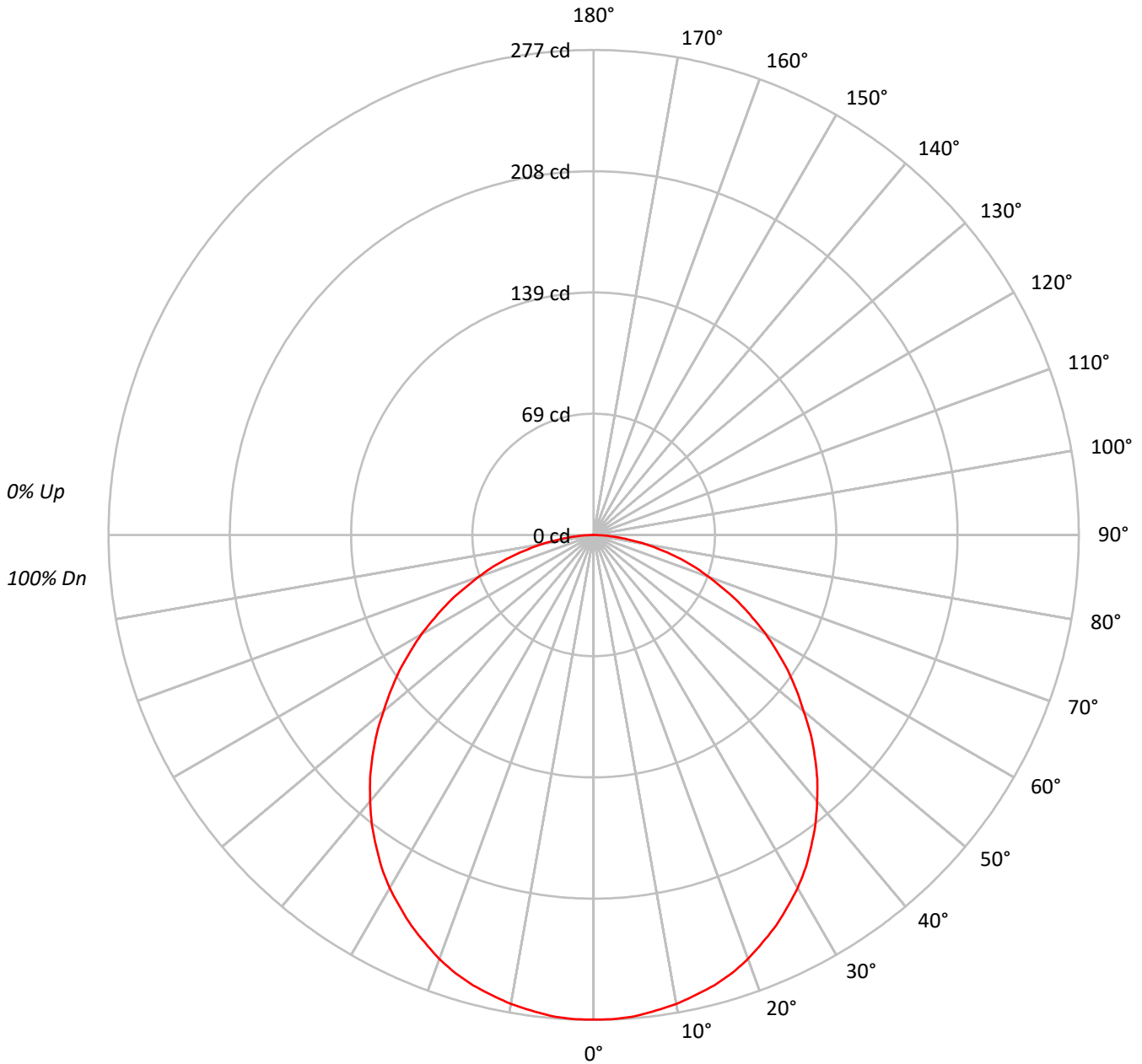
Lumens per Lamp: N/A  
Luminaire Lumens: 764.9 lumens  
Efficiency: N/A  
Efficacy: 100.7 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.35  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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: 25 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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	109	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84			
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	72	70			
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59			
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51			
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	44			
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	38			
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34			
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30			
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27			
10	53	40	32	27	52	39	32	27	38	31	27	38	31	27	37	31	26	25			

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	34210
5°	34229
10°	34136
15°	34074
20°	33894
25°	33588
30°	33238
35°	32695
40°	32026
45°	31199
50°	30091
55°	29197
60°	28080
65°	26788
70°	25187
75°	23685
80°	21068
85°	16308

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 31199 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	26.2	3.4
10°-20°	75.1	9.8
20°-30°	113.4	14.8
30°-40°	135.6	17.7
40°-50°	137.6	18.0
50°-60°	120.9	15.8
60°-70°	90.4	11.8
70°-80°	52.3	6.8
80°-90°	13.4	1.7
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°	214.8	28.1
0°-40°	350.3	45.8
0°-60°	608.8	79.6
0°-90°	764.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	764.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	277	
5°	276	26
15°	266	75
25°	246	113
35°	217	136
45°	178	138
55°	136	121
65°	92	90
75°	50	52
85°	12	13
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	276.8
2.5°	276.8
5°	275.9
7.5°	274.0
10°	272.0
12.5°	269.2
15°	266.3
17.5°	262.5
20°	257.7
22.5°	252.0
25°	246.3
27.5°	239.6
30°	232.9
32.5°	225.3
35°	216.7
37.5°	208.1
40°	198.5
42.5°	189.0
45°	178.5
47.5°	168.0
50°	156.5
52.5°	146.0
55°	135.5
57.5°	124.1
60°	113.6
62.5°	102.1
65°	91.6
67.5°	80.2
70°	69.7
72.5°	60.1
75°	49.6
77.5°	39.1
80°	29.6
82.5°	20.0
85°	11.5
87.5°	2.9
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 670246102 / DESKTOP-IQ7I0JM

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— 0°-180°

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(END OF REPORT)