

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: P683857

Luminaire Tested: CJB6099FS1EMW-3500K

Issue Date: 5/9/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P683857  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2304-981-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 5/9/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: CJB6099FS1EMW-3500K  
Description: 6IN J-BOX LED DOWNLIGHT WITH SELECTABLE CCT  
Light Source: (1) 3500K CCT, 94 CRI LEDS  
Ballast/Driver: -

**Summary**

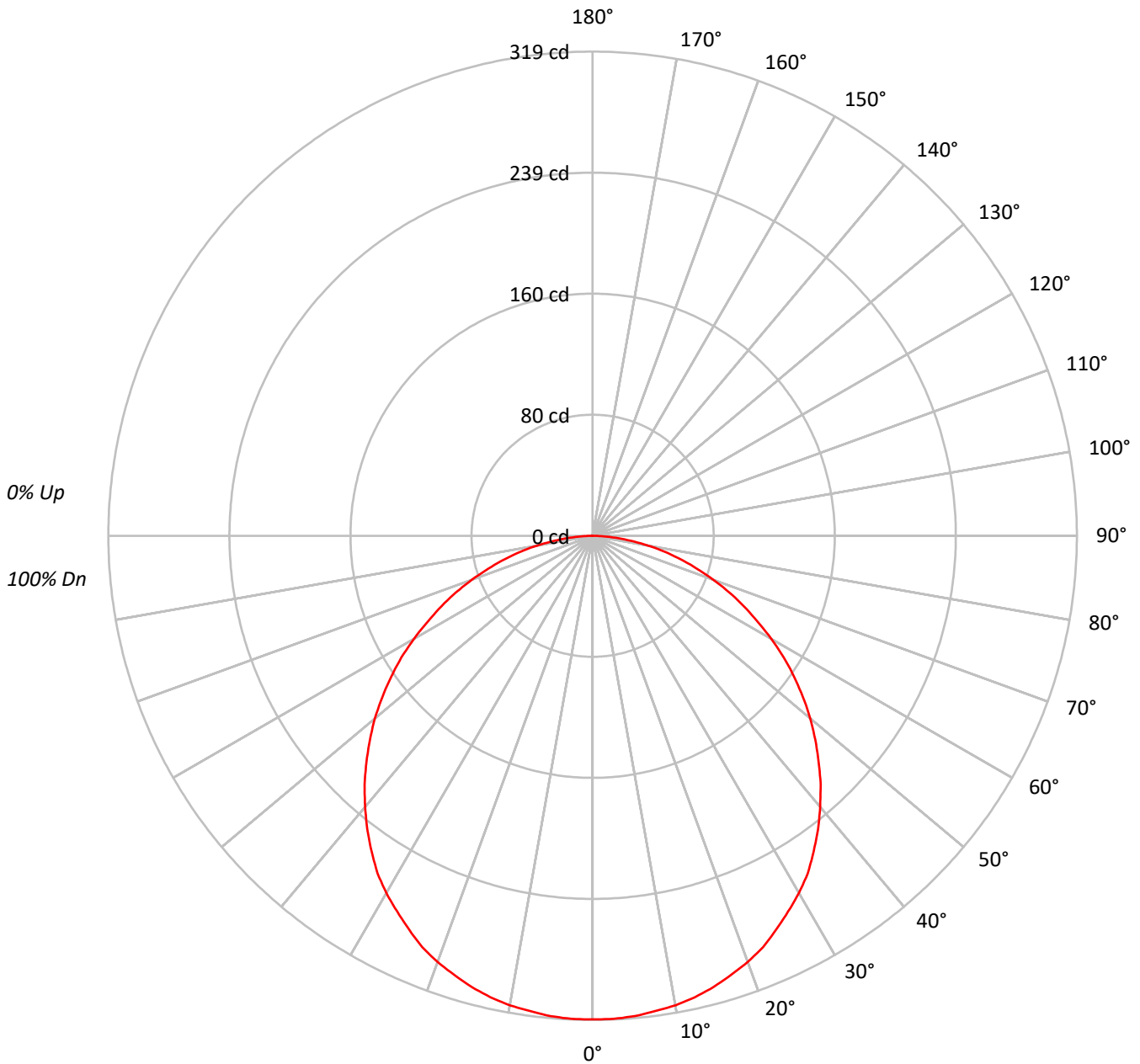
Lumens per Lamp: N/A  
Luminaire Lumens: 905.1 lumens  
Efficiency: N/A  
Efficacy: 98.4 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.37  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.2  
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									
RC	80									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	97	94	91	93	91	88	90	88	86	84																			
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70																			
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59																			
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50																			
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43																			
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38																			
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	33																			
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30																			
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27																			
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24																			

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

	0°
0°	17466
5°	17483
10°	17485
15°	17469
20°	17432
25°	17311
30°	17205
35°	16985
40°	16681
45°	16327
50°	15965
55°	15483
60°	14900
65°	14243
70°	13560
75°	12772
80°	11649
85°	9624

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16327 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	30.2	3.3
10°-20°	86.9	9.6
20°-30°	132.0	14.6
30°-40°	158.7	17.5
40°-50°	162.5	18.0
50°-60°	144.8	16.0
60°-70°	108.8	12.0
70°-80°	63.7	7.0
80°-90°	17.5	1.9
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°	249.1	27.5
0°-40°	407.8	45.1
0°-60°	715.1	79.0
0°-90°	905.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	905.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	319	
5°	318	30
15°	308	87
25°	286	132
35°	254	159
45°	211	163
55°	162	145
65°	110	109
75°	60	64
85°	15	18
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	318.6
2.5°	318.6
5°	317.7
7.5°	315.9
10°	314.1
12.5°	311.4
15°	307.8
17.5°	303.3
20°	298.8
22.5°	293.4
25°	286.2
27.5°	279.0
30°	271.8
32.5°	263.7
35°	253.8
37.5°	243.9
40°	233.1
42.5°	222.3
45°	210.6
47.5°	198.9
50°	187.2
52.5°	174.6
55°	162.0
57.5°	149.4
60°	135.9
62.5°	122.4
65°	109.8
67.5°	97.2
70°	84.6
72.5°	72.0
75°	60.3
77.5°	48.6
80°	36.9
82.5°	25.2
85°	15.3
87.5°	5.4
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)