

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: P683850

Luminaire Tested: CJB4069FS1EMW-2700K

Issue Date: 5/9/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P683850  
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-2700K  
Description: 4IN J-BOX LED DOWNLIGHT WITH SELECTABLE CCT  
Light Source: (1) 2700K CCT, 92 CRI LEDS  
Ballast/Driver: -

**Summary**

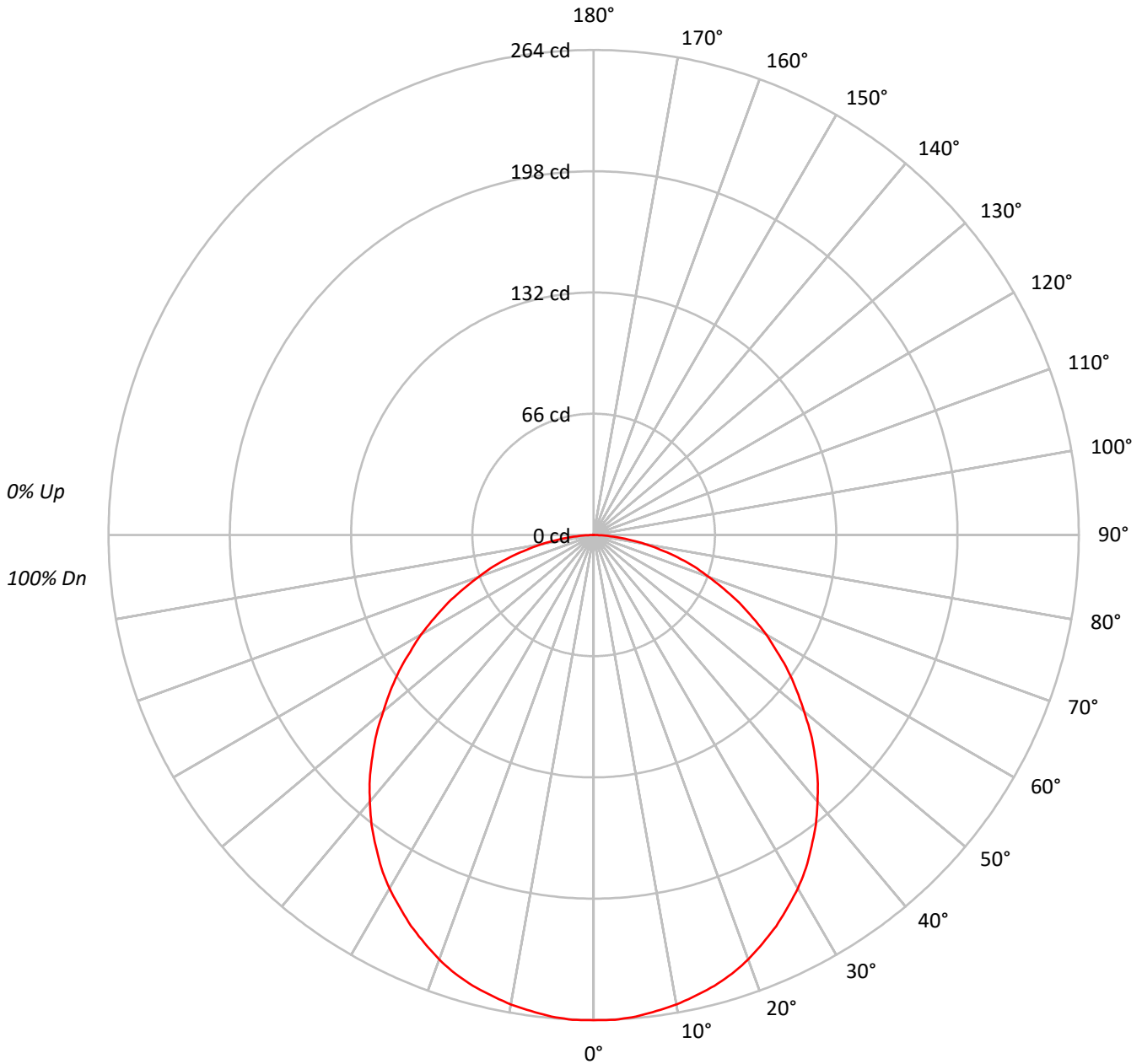
Lumens per Lamp: N/A  
Luminaire Lumens: 730.0 lumens  
Efficiency: N/A  
Efficacy: 93.6 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.35  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.8  
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



TEST NUMBER: P683850  
CATALOG NUMBER: CJB4069FS1EMW-2700K

### Luminous Intensity Polar Plot





TEST NUMBER: P683850  
 CATALOG NUMBER: CJB4069FS1EMW-2700K

**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	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°	32653
5°	32654
10°	32580
15°	32513
20°	32342
25°	32047
30°	31725
35°	31202
40°	30574
45°	29766
50°	28726
55°	27861
60°	26795
65°	25560
70°	24030
75°	22635
80°	20071
85°	15457

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 29766 cd/sqm



TEST NUMBER: P683850  
 CATALOG NUMBER: CJB4069FS1EMW-2700K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.0	3.4
10°-20°	71.7	9.8
20°-30°	108.2	14.8
30°-40°	129.4	17.7
40°-50°	131.3	18.0
50°-60°	115.4	15.8
60°-70°	86.3	11.8
70°-80°	50.0	6.8
80°-90°	12.7	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°	204.9	28.1
0°-40°	334.3	45.8
0°-60°	581.0	79.6
0°-90°	730.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	730.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	264	
5°	263	25
15°	254	72
25°	235	108
35°	207	129
45°	170	131
55°	129	115
65°	87	86
75°	47	50
85°	11	13
90°	0	



TEST NUMBER: P683850  
CATALOG NUMBER: CJB4069FS1EMW-2700K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	264.2
2.5°	264.2
5°	263.2
7.5°	261.4
10°	259.6
12.5°	256.9
15°	254.1
17.5°	250.5
20°	245.9
22.5°	240.5
25°	235.0
27.5°	228.6
30°	222.3
32.5°	215.0
35°	206.8
37.5°	198.6
40°	189.5
42.5°	180.4
45°	170.3
47.5°	160.3
50°	149.4
52.5°	139.4
55°	129.3
57.5°	118.4
60°	108.4
62.5°	97.5
65°	87.4
67.5°	76.5
70°	66.5
72.5°	57.4
75°	47.4
77.5°	37.3
80°	28.2
82.5°	19.1
85°	10.9
87.5°	2.7
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

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

Scaled Data Report





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

Scaled Data Report



— 0°-180°

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

Scaled Data Report



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

Scaled Data Report



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

Scaled Data Report



(END OF REPORT)