

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: P683852

Luminaire Tested: CJB4069FS1EMW-3500K

Issue Date: 5/9/2023

Test Information

Test Method: LM-79-2019
Report Number: P683852
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-3500K
Description: 4IN J-BOX LED DOWNLIGHT WITH SELECTABLE CCT
Light Source: (1) 3500K CCT, 95 CRI LEDS
Ballast/Driver: -

Summary

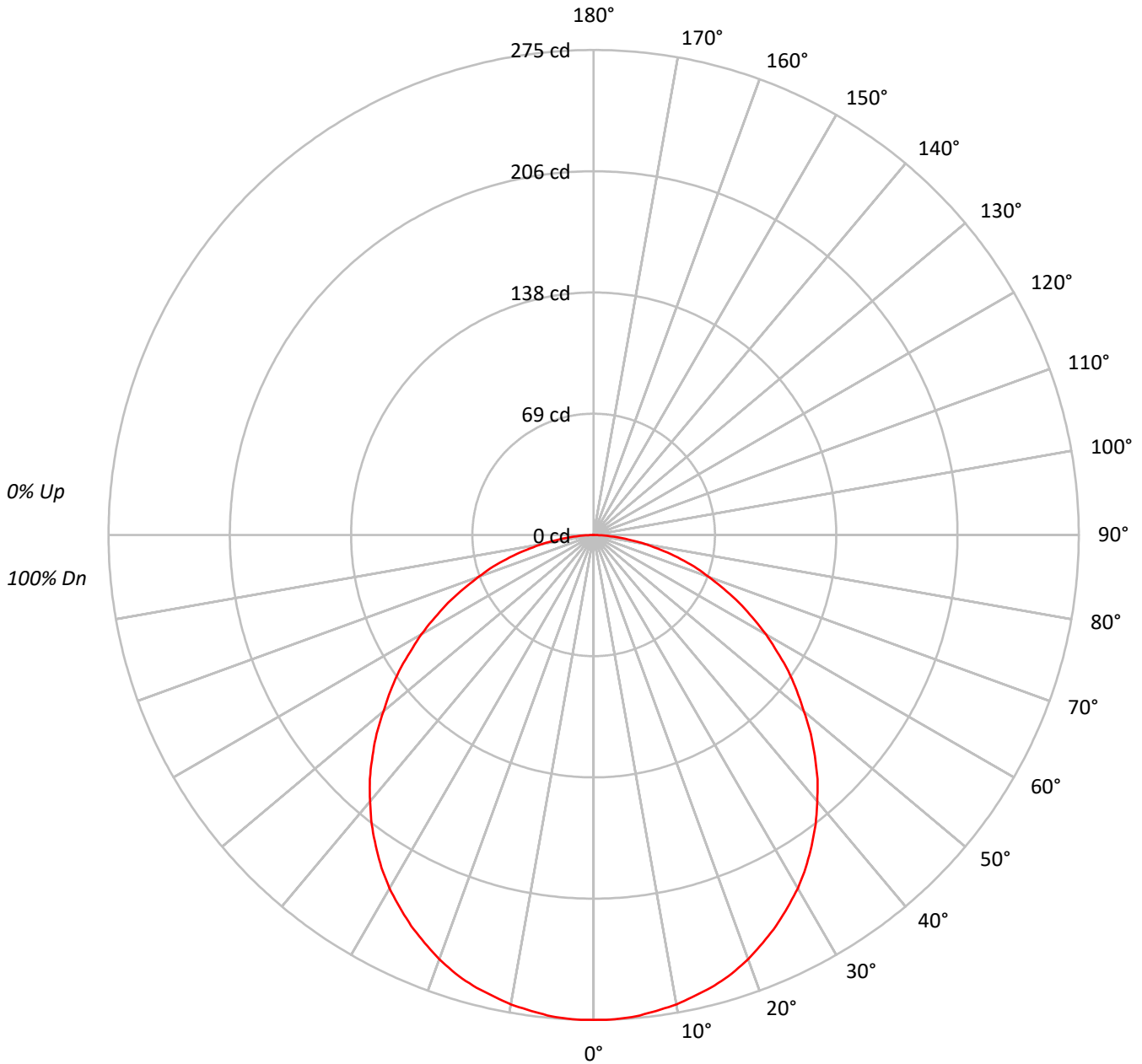
Lumens per Lamp: N/A
Luminaire Lumens: 760.0 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.35
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 7.6
Input Voltage (V): 120
Input Current (A_{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: 25 FT



TEST NUMBER: P683852
CATALOG NUMBER: CJB4069FS1EMW-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P683852
 CATALOG NUMBER: CJB4069FS1EMW-3500K

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°	33988
5°	34006
10°	33922
15°	33856
20°	33670
25°	33370
30°	33024
35°	32484
40°	31816
45°	30990
50°	29899
55°	29025
60°	27882
65°	26612
70°	25006
75°	23542
80°	20925
85°	16166

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 30990 cd/sqm



TEST NUMBER: P683852
 CATALOG NUMBER: CJB4069FS1EMW-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.0	3.4
10°-20°	74.6	9.8
20°-30°	112.7	14.8
30°-40°	134.7	17.7
40°-50°	136.7	18.0
50°-60°	120.1	15.8
60°-70°	89.9	11.8
70°-80°	52.0	6.8
80°-90°	13.3	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°	213.4	28.1
0°-40°	348.0	45.8
0°-60°	604.9	79.6
0°-90°	760.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	760.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	275	
5°	274	26
15°	265	75
25°	245	113
35°	215	135
45°	177	137
55°	135	120
65°	91	90
75°	49	52
85°	11	13
90°	0	



TEST NUMBER: P683852
CATALOG NUMBER: CJB4069FS1EMW-3500K

CANDELA DISTRIBUTION (FULL):

	0°
0°	275.0
2.5°	275.0
5°	274.1
7.5°	272.2
10°	270.3
12.5°	267.4
15°	264.6
17.5°	260.8
20°	256.0
22.5°	250.4
25°	244.7
27.5°	238.0
30°	231.4
32.5°	223.8
35°	215.3
37.5°	206.7
40°	197.2
42.5°	187.8
45°	177.3
47.5°	166.9
50°	155.5
52.5°	145.1
55°	134.7
57.5°	123.3
60°	112.8
62.5°	101.5
65°	91.0
67.5°	79.7
70°	69.2
72.5°	59.7
75°	49.3
77.5°	38.9
80°	29.4
82.5°	19.9
85°	11.4
87.5°	2.8
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 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)