

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: P683851

Luminaire Tested: CJB4069FS1EMW-3000K

Issue Date: 5/9/2023

Test Information

Test Method: LM-79-2019
Report Number: P683851
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-3000K
Description: 4IN J-BOX LED DOWNLIGHT WITH SELECTABLE CCT
Light Source: (1) 3000K CCT, 94 CRI LEDS
Ballast/Driver: -

Summary

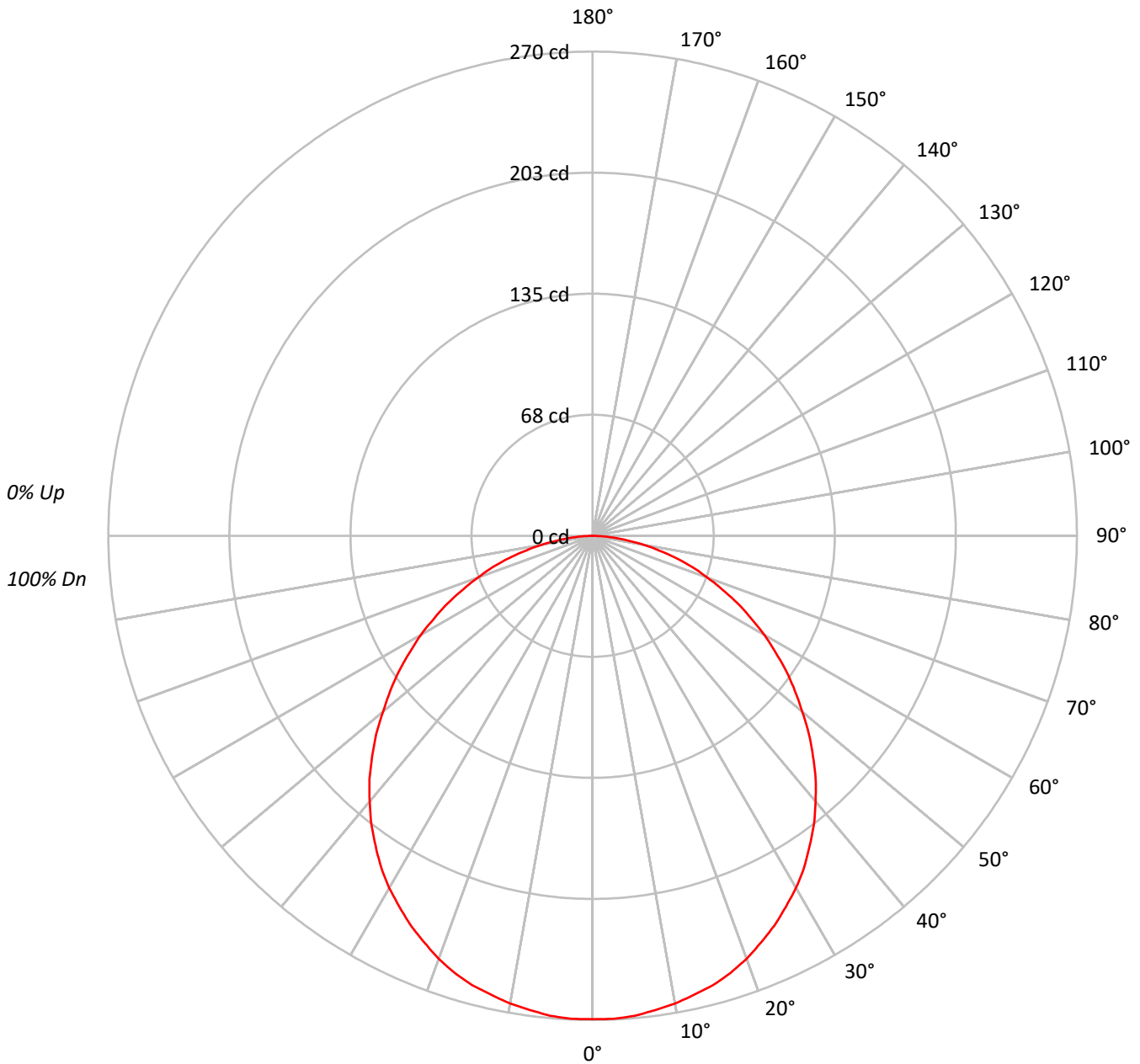
Lumens per Lamp: N/A
Luminaire Lumens: 745.0 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.35
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 7.7
Input Voltage (V): 120
Input Current (Ain): 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°	33321
5°	33336
10°	33245
15°	33191
20°	33013
25°	32701
30°	32367
35°	31835
40°	31203
45°	30378
50°	29322
55°	28443
60°	27339
65°	26086
70°	24536
75°	23064
80°	20498
85°	15882

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 30378 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.5	3.4
10°-20°	73.2	9.8
20°-30°	110.5	14.8
30°-40°	132.0	17.7
40°-50°	134.0	18.0
50°-60°	117.7	15.8
60°-70°	88.1	11.8
70°-80°	51.0	6.8
80°-90°	13.0	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°	209.1	28.1
0°-40°	341.1	45.8
0°-60°	592.9	79.6
0°-90°	745.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	745.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	270	
5°	269	26
15°	259	73
25°	240	110
35°	211	132
45°	174	134
55°	132	118
65°	89	88
75°	48	51
85°	11	13
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	269.6
2.5°	269.6
5°	268.7
7.5°	266.8
10°	264.9
12.5°	262.1
15°	259.4
17.5°	255.6
20°	251.0
22.5°	245.4
25°	239.8
27.5°	233.3
30°	226.8
32.5°	219.4
35°	211.0
37.5°	202.7
40°	193.4
42.5°	184.1
45°	173.8
47.5°	163.6
50°	152.5
52.5°	142.2
55°	132.0
57.5°	120.8
60°	110.6
62.5°	99.5
65°	89.2
67.5°	78.1
70°	67.9
72.5°	58.6
75°	48.3
77.5°	38.1
80°	28.8
82.5°	19.5
85°	11.2
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

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— 0°-180°

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