

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: P683853

Luminaire Tested: CJB4069FS1EMW-4000K

Issue Date: 5/9/2023

Test Information

Test Method: LM-79-2019
Report Number: P683853
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-4000K
Description: 4IN J-BOX LED DOWNLIGHT WITH SELECTABLE CCT
Light Source: (1) 4000K CCT, 95 CRI LEDS
Ballast/Driver: -

Summary

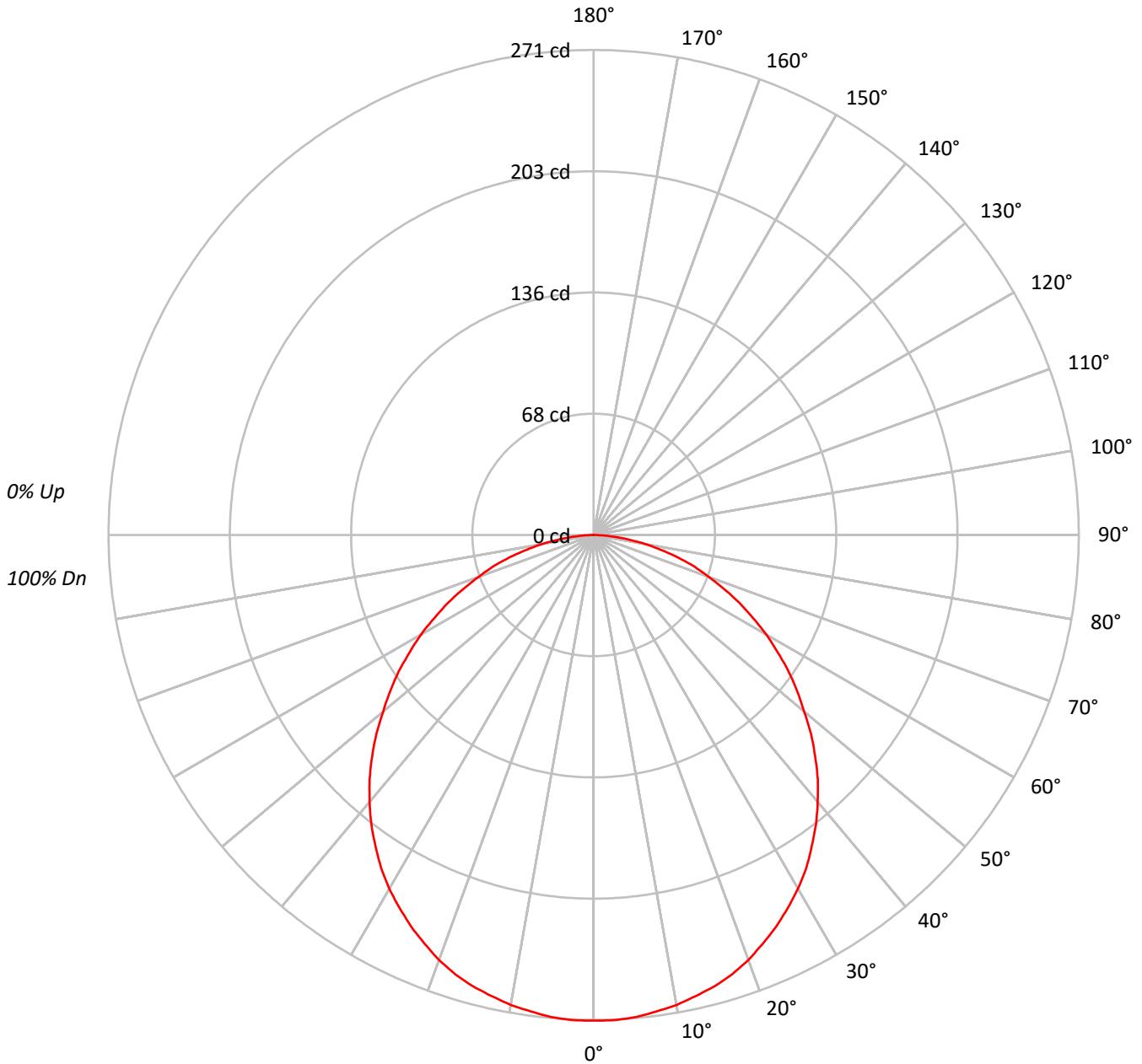
Lumens per Lamp: N/A
Luminaire Lumens: 750.0 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.35
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 7.7
Input Voltage (V): 120
Input Current (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



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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				100
1	109	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84				84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	72	70				70
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59				59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51				51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	44				44
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	38				38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34				34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30				30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27				27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	27	37	31	26	25				25

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	33543
5°	33559
10°	33471
15°	33408
20°	33236
25°	32920
30°	32581
35°	32047
40°	31413
45°	30588
50°	29514
55°	28637
60°	27536
65°	26262
70°	24681
75°	23255
80°	20640
85°	15882

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 30588 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.7	3.4
10°-20°	73.7	9.8
20°-30°	111.2	14.8
30°-40°	132.9	17.7
40°-50°	134.9	18.0
50°-60°	118.6	15.8
60°-70°	88.7	11.8
70°-80°	51.4	6.8
80°-90°	13.1	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°	210.5	28.1
0°-40°	343.4	45.8
0°-60°	596.9	79.6
0°-90°	750.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	750.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	271	
5°	270	26
15°	261	74
25°	241	111
35°	212	133
45°	175	135
55°	133	119
65°	90	89
75°	49	51
85°	11	13
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	271.4
2.5°	271.4
5°	270.5
7.5°	268.6
10°	266.7
12.5°	263.9
15°	261.1
17.5°	257.4
20°	252.7
22.5°	247.1
25°	241.4
27.5°	234.9
30°	228.3
32.5°	220.9
35°	212.4
37.5°	204.0
40°	194.7
42.5°	185.3
45°	175.0
47.5°	164.7
50°	153.5
52.5°	143.2
55°	132.9
57.5°	121.7
60°	111.4
62.5°	100.1
65°	89.8
67.5°	78.6
70°	68.3
72.5°	59.0
75°	48.7
77.5°	38.4
80°	29.0
82.5°	19.7
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



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— 0°-180°

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