

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: P683856

Luminaire Tested: CJB6099FS1EMW-3000K

Issue Date: 5/9/2023

Test Information

Test Method: LM-79-2019
Report Number: P683856
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-3000K
Description: 6IN J-BOX LED DOWNLIGHT WITH SELECTABLE CCT
Light Source: (1) 3000K CCT, 93 CRI LEDS
Ballast/Driver: -

Summary

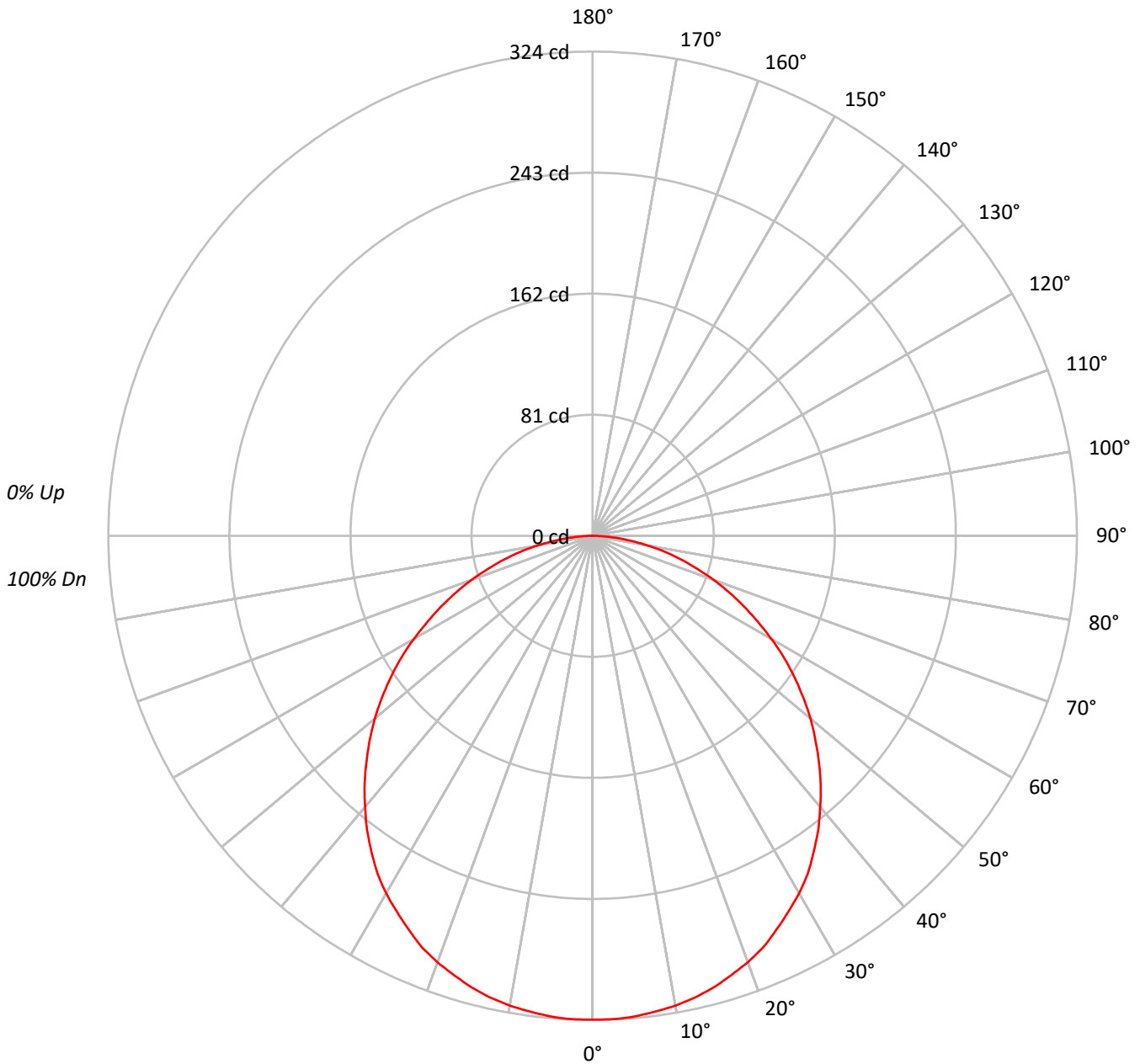
Lumens per Lamp: N/A
Luminaire Lumens: 920.1 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.37
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 9.2
Input Voltage (V): 120
Input Current (A_{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				
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	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°	17751
5°	17769
10°	17774
15°	17758
20°	17717
25°	17596
30°	17490
35°	17266
40°	16953
45°	16599
50°	16230
55°	15741
60°	15141
65°	14476
70°	13784
75°	12984
80°	11839
85°	9812

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16599 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.7	3.3
10°-20°	88.3	9.6
20°-30°	134.2	14.6
30°-40°	161.4	17.5
40°-50°	165.2	18.0
50°-60°	147.2	16.0
60°-70°	110.6	12.0
70°-80°	64.8	7.0
80°-90°	17.8	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°	253.2	27.5
0°-40°	414.5	45.1
0°-60°	726.9	79.0
0°-90°	920.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	920.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	324	
5°	323	31
15°	313	88
25°	291	134
35°	258	161
45°	214	165
55°	165	147
65°	112	111
75°	61	65
85°	16	18
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	323.8
2.5°	323.8
5°	322.9
7.5°	321.1
10°	319.3
12.5°	316.5
15°	312.9
17.5°	308.3
20°	303.7
22.5°	298.2
25°	290.9
27.5°	283.6
30°	276.3
32.5°	268.0
35°	258.0
37.5°	247.9
40°	236.9
42.5°	225.9
45°	214.1
47.5°	202.2
50°	190.3
52.5°	177.5
55°	164.7
57.5°	151.9
60°	138.1
62.5°	124.4
65°	111.6
67.5°	98.8
70°	86.0
72.5°	73.2
75°	61.3
77.5°	49.4
80°	37.5
82.5°	25.6
85°	15.6
87.5°	5.5
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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