

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO

Report Number: P303277

Luminaire Tested: **BLD4089BLE40AWH-5000K**

Test Date: 06/19/19

Test Information

Test Method: LM-41-14
Report Number: P303277
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1906-357-1)
Test Lab: INNOVATION CENTER(G3)
Test Date: 06/19/19
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: BLD4089BLE40AWH-5000K
Description: 4" SMART SURFACE MOUNT DOWNLIGHT 5000K
Light Source: (40) 90 CRI LEDS
Ballast/Driver: ELECTRICAL DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 890.2 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.08')
CIE Type: Direct

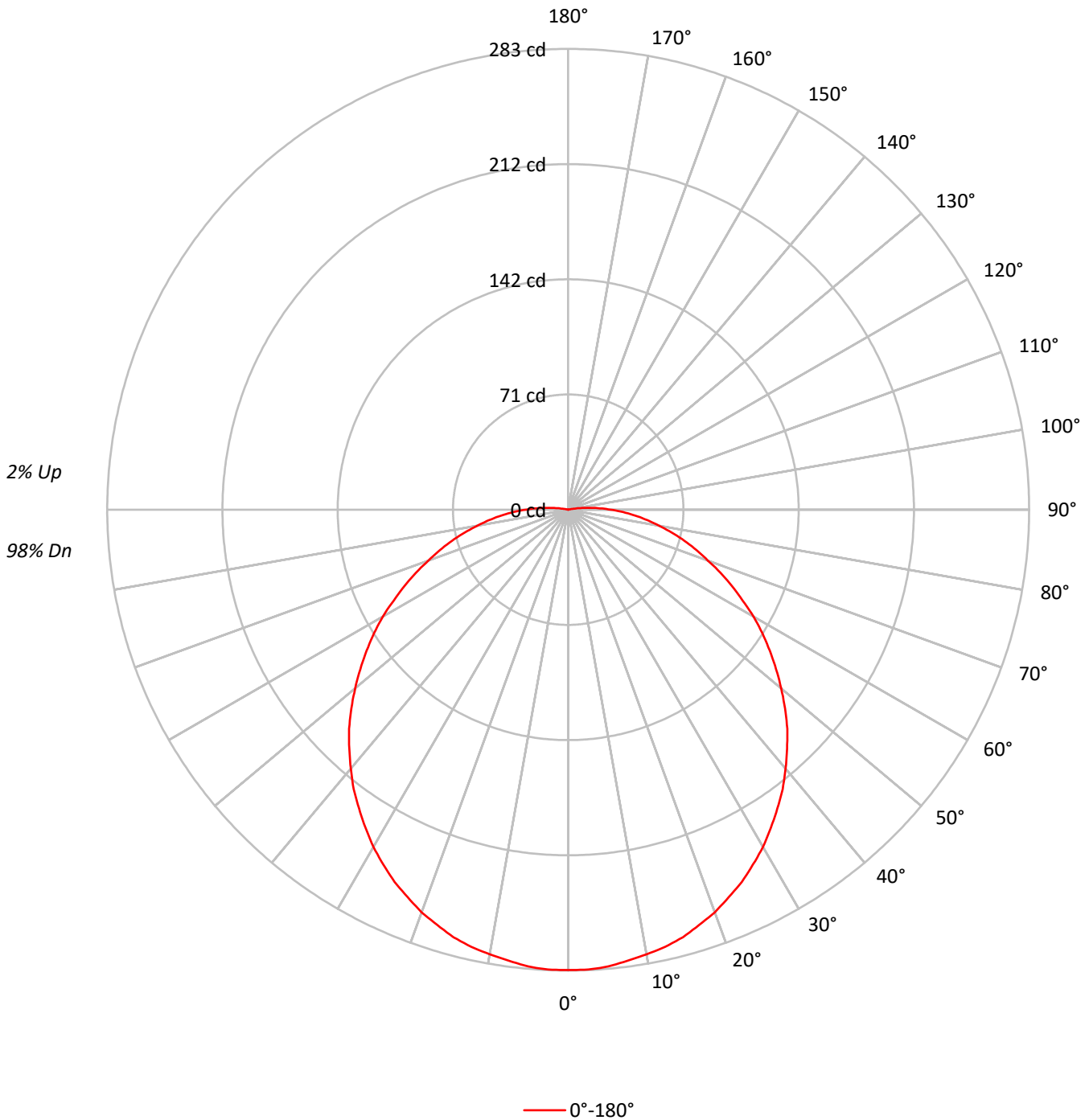
Input Watts (W): 9.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	110	110	110		105	105	105		100	100	100	98
1	107	101	96	92	104	99	94	90	94	90	87		90	87	84		86	83	81	79
2	96	87	80	74	94	85	79	73	81	76	71		78	73	69		75	71	67	65
3	88	76	68	61	85	75	67	60	71	64	59		68	62	57		65	60	56	54
4	80	67	58	51	78	66	57	51	63	56	50		61	54	49		58	53	48	46
5	74	60	51	44	71	59	50	44	57	49	43		54	48	42		52	46	42	39
6	68	54	45	38	66	53	44	38	51	43	37		49	42	37		47	41	36	34
7	63	49	40	34	61	48	40	33	46	39	33		45	38	33		43	37	32	30
8	59	45	36	30	57	44	36	30	42	35	29		41	34	29		40	33	29	27
9	55	41	33	27	53	40	32	27	39	32	27		38	31	26		37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24		35	28	24		34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	34870
5°	33922
10°	32874
15°	31980
20°	30949
25°	29887
30°	28780
35°	27569
40°	26381
45°	25167
50°	23747
55°	22339
60°	20911
65°	19236
70°	17565
75°	16097
80°	14307
85°	12601



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.7	3.0
10°-20°	76.6	8.6
20°-30°	116.2	13.0
30°-40°	140.2	15.7
40°-50°	146.5	16.5
50°-60°	135.2	15.2
60°-70°	110.0	12.4
70°-80°	78.0	8.8
80°-90°	45.0	5.1
90°-100°	15.0	1.7
100°-110°	0.7	0.1
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°	219.5	24.7
0°-40°	359.7	40.4
0°-60°	641.5	72.1
0°-90°	874.5	98.2
90°-120°	15.7	1.8
90°-150°	15.7	1.8
90°-180°	16.0	1.8
0°-180°	890.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	283	
5°	282	27
15°	272	77
25°	252	116
35°	224	140
45°	190	147
55°	151	135
65°	111	110
75°	74	78
85°	41	37
90°	26	14
95°	13	9
105°	0	1
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0



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CANDELA DISTRIBUTION (FULL):

0°	
0°	282.7
2.5°	282.7
5°	281.6
7.5°	279.4
10°	277.2
12.5°	275.0
15°	271.8
17.5°	267.4
20°	263.1
22.5°	257.6
25°	252.2
27.5°	245.7
30°	239.2
32.5°	231.6
35°	223.9
37.5°	216.3
40°	207.6
42.5°	198.9
45°	190.2
47.5°	180.5
50°	170.7
52.5°	160.9
55°	151.1
57.5°	141.3
60°	131.5
62.5°	120.7
65°	110.9
67.5°	101.1
70°	91.3
72.5°	82.6
75°	73.9
77.5°	65.2
80°	56.5
82.5°	48.9
85°	41.3
87.5°	33.7
90°	26.1
92.5°	19.6
95°	13.0
97.5°	7.6
100°	3.3
102.5°	1.1
105°	0.0
107.5°	0.0
110°	0.0



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)