

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: P303278

Luminaire Tested: **BLD4089BLE40AWH-4000K**

Test Date: 06/19/19

Test Information

Test Method: LM-41-14
Report Number: P303278
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-4000K
Description: 4" SMART SURFACE MOUNT DOWNLIGHT 4000K
Light Source: (40) 90 CRI LEDS
Ballast/Driver: ELECTRICAL DRIVER

Summary

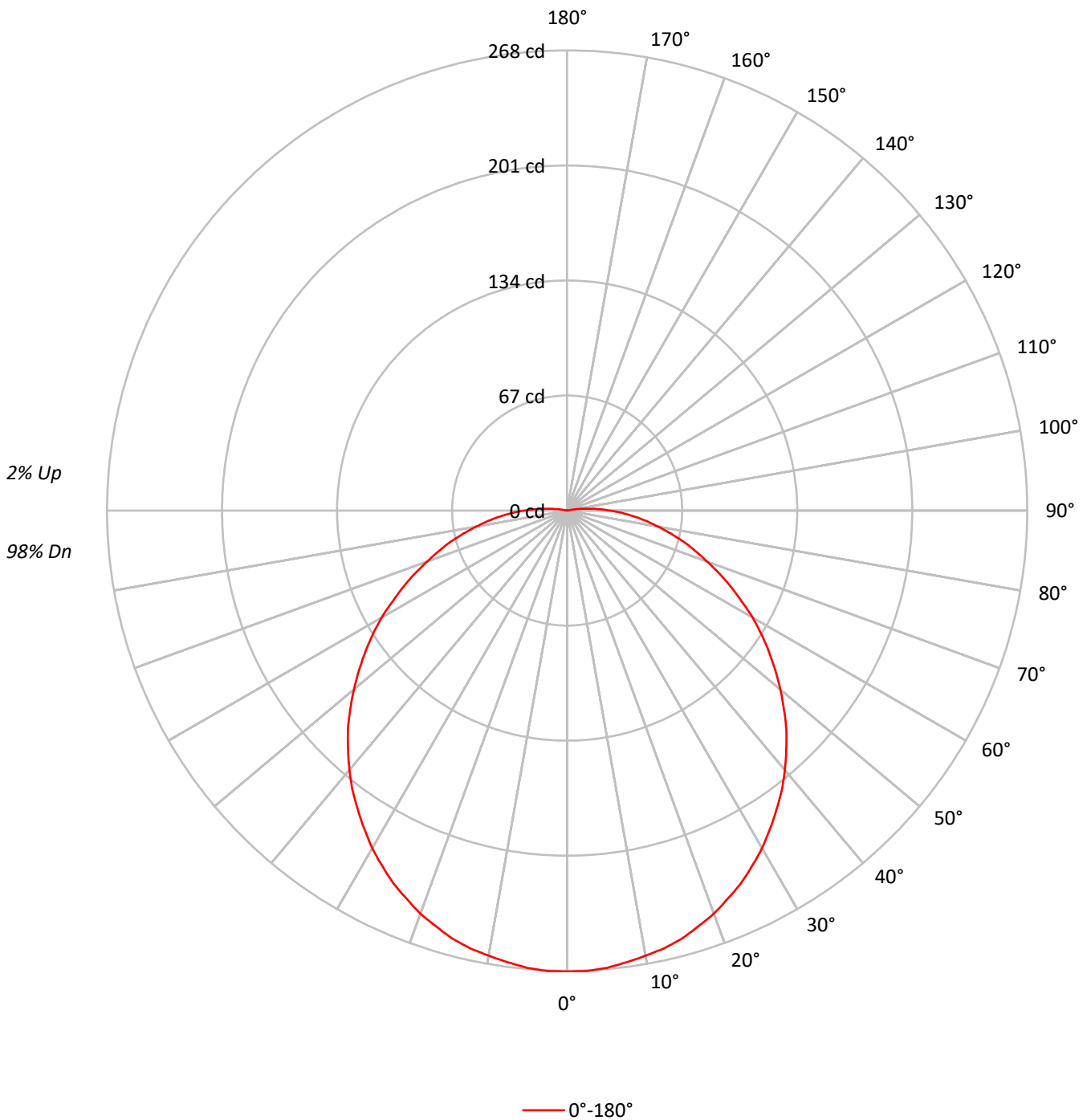
Lumens per Lamp: N/A
Luminaire Lumens: 845.3 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.08')
CIE Type: Direct

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°	33106
5°	32200
10°	31213
15°	30368
20°	29385
25°	28382
30°	27324
35°	26178
40°	25059
45°	23897
50°	22551
55°	21215
60°	19862
65°	18265
70°	16680
75°	15291
80°	13598
85°	11961



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.4	3.0
10°-20°	72.8	8.6
20°-30°	110.3	13.0
30°-40°	133.1	15.8
40°-50°	139.1	16.5
50°-60°	128.4	15.2
60°-70°	104.4	12.4
70°-80°	74.1	8.8
80°-90°	42.7	5.1
90°-100°	14.3	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°	208.4	24.7
0°-40°	341.6	40.4
0°-60°	609.1	72.1
0°-90°	830.4	98.2
90°-120°	14.9	1.8
90°-150°	14.9	1.8
90°-180°	15.0	1.8
0°-180°	845.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	268	
5°	267	25
15°	258	73
25°	240	110
35°	213	133
45°	181	139
55°	144	128
65°	105	104
75°	70	74
85°	39	35
90°	25	14
95°	12	8
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°	268.4
2.5°	268.4
5°	267.3
7.5°	265.3
10°	263.2
12.5°	261.1
15°	258.1
17.5°	253.9
20°	249.8
22.5°	244.6
25°	239.5
27.5°	233.3
30°	227.1
32.5°	219.9
35°	212.6
37.5°	205.4
40°	197.2
42.5°	188.9
45°	180.6
47.5°	171.3
50°	162.1
52.5°	152.8
55°	143.5
57.5°	134.2
60°	124.9
62.5°	114.6
65°	105.3
67.5°	96.0
70°	86.7
72.5°	78.4
75°	70.2
77.5°	61.9
80°	53.7
82.5°	46.4
85°	39.2
87.5°	32.0
90°	24.8
92.5°	18.6
95°	12.4
97.5°	7.2
100°	3.1
102.5°	1.0
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)