

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: P303281

Luminaire Tested: **BLD4089BLE40AWH-2700K**

Test Date: 06/19/19

Test Information

Test Method: LM-41-14
Report Number: P303281
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-2700K
Description: 4" SMART SURFACE MOUNT DOWNLIGHT 2700K
Light Source: (40) 90 CRI LEDS
Ballast/Driver: ELECTRICAL DRIVER

Summary

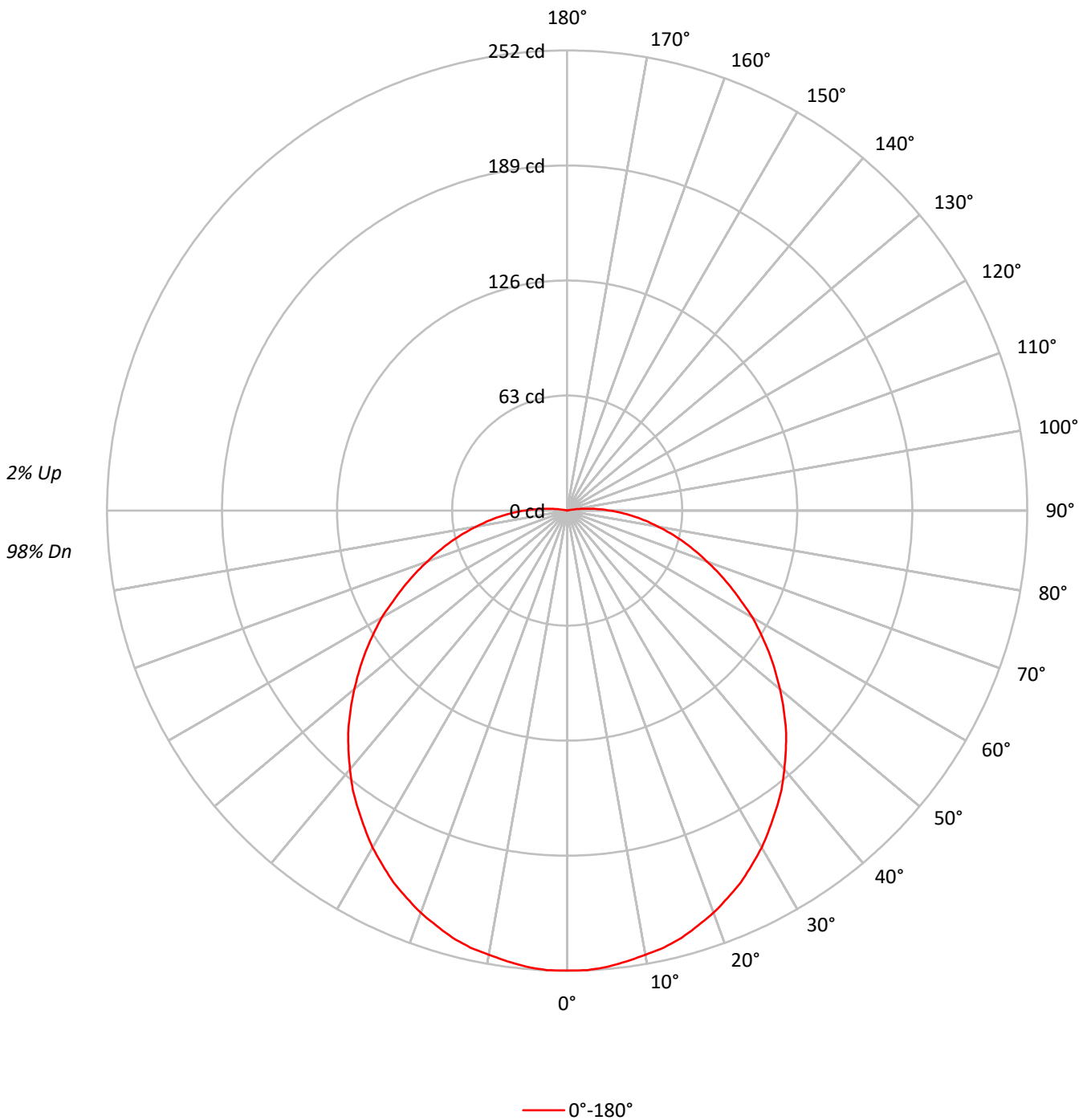
Lumens per Lamp: N/A
Luminaire Lumens: 793.3 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.08')
CIE Type: Direct

Input Watts (W): 9.1
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°	31071
5°	30224
10°	29292
15°	28498
20°	27573
25°	26640
30°	25639
35°	24577
40°	23509
45°	22428
50°	21160
55°	19914
60°	18637
65°	17138
70°	15660
75°	14354
80°	12762
85°	11228



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.8	3.0
10°-20°	68.3	8.6
20°-30°	103.5	13.0
30°-40°	124.9	15.7
40°-50°	130.6	16.5
50°-60°	120.5	15.2
60°-70°	98.0	12.3
70°-80°	69.6	8.8
80°-90°	40.1	5.1
90°-100°	13.4	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°	195.6	24.7
0°-40°	320.6	40.4
0°-60°	571.6	72.1
0°-90°	779.3	98.2
90°-120°	14.0	1.8
90°-150°	14.0	1.8
90°-180°	14.0	1.8
0°-180°	793.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	252	
5°	251	24
15°	242	68
25°	225	104
35°	200	125
45°	170	131
55°	135	121
65°	99	98
75°	66	70
85°	37	33
90°	23	13
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°	251.9
2.5°	251.9
5°	250.9
7.5°	249.0
10°	247.0
12.5°	245.1
15°	242.2
17.5°	238.3
20°	234.4
22.5°	229.6
25°	224.8
27.5°	218.9
30°	213.1
32.5°	206.3
35°	199.6
37.5°	192.8
40°	185.0
42.5°	177.3
45°	169.5
47.5°	160.8
50°	152.1
52.5°	143.4
55°	134.7
57.5°	125.9
60°	117.2
62.5°	107.5
65°	98.8
67.5°	90.1
70°	81.4
72.5°	73.6
75°	65.9
77.5°	58.1
80°	50.4
82.5°	43.6
85°	36.8
87.5°	30.0
90°	23.3
92.5°	17.4
95°	11.6
97.5°	6.8
100°	2.9
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)