

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: P303280

Luminaire Tested: **BLD4089BLE40AWH-3000K**

Test Date: 06/19/19

Test Information

Test Method: LM-41-14
Report Number: P303280
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-3000K
Description: 4" SMART SURFACE MOUNT DOWNLIGHT 3000K
Light Source: (40) 90 CRI LEDS
Ballast/Driver: ELECTRICAL DRIVER

Summary

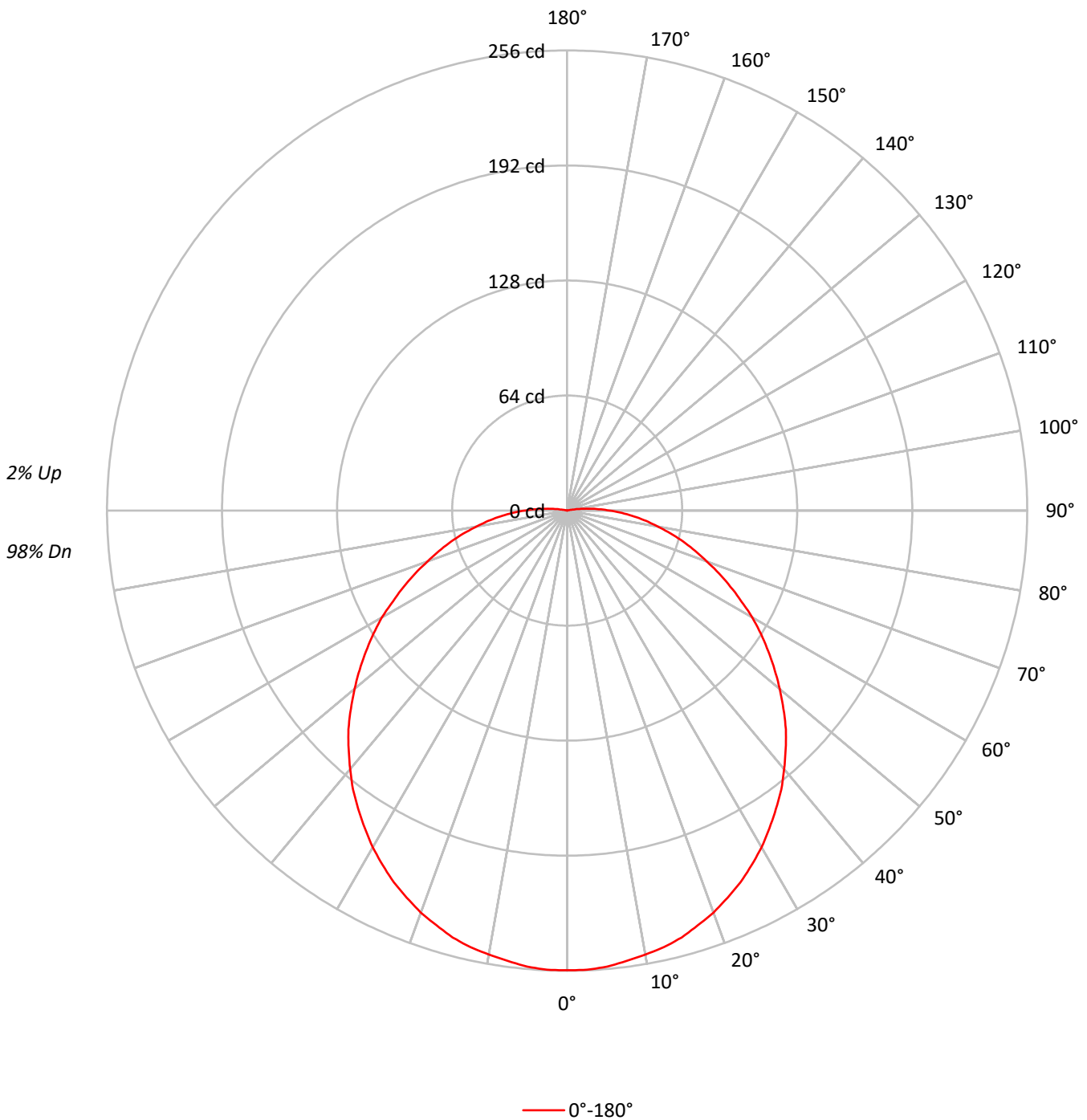
Lumens per Lamp: N/A
Luminaire Lumens: 805.4 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.08')
CIE Type: Direct

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°	31539
5°	30682
10°	29743
15°	28933
20°	27997
25°	27043
30°	26024
35°	24947
40°	23865
45°	22772
50°	21480
55°	20210
60°	18923
65°	17398
70°	15891
75°	14572
80°	12939
85°	11411



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.2	3.0
10°-20°	69.3	8.6
20°-30°	105.1	13.0
30°-40°	126.8	15.7
40°-50°	132.5	16.5
50°-60°	122.3	15.2
60°-70°	99.5	12.4
70°-80°	70.6	8.8
80°-90°	40.8	5.1
90°-100°	13.6	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°	198.6	24.7
0°-40°	325.4	40.4
0°-60°	580.3	72.1
0°-90°	791.1	98.2
90°-120°	14.3	1.8
90°-150°	14.3	1.8
90°-180°	14.0	1.7
0°-180°	805.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	256	
5°	255	24
15°	246	69
25°	228	105
35°	203	127
45°	172	133
55°	137	122
65°	100	99
75°	67	71
85°	37	33
90°	24	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°	255.7
2.5°	255.7
5°	254.7
7.5°	252.7
10°	250.8
12.5°	248.8
15°	245.9
17.5°	241.9
20°	238.0
22.5°	233.1
25°	228.2
27.5°	222.3
30°	216.3
32.5°	209.5
35°	202.6
37.5°	195.7
40°	187.8
42.5°	180.0
45°	172.1
47.5°	163.2
50°	154.4
52.5°	145.5
55°	136.7
57.5°	127.8
60°	119.0
62.5°	109.2
65°	100.3
67.5°	91.5
70°	82.6
72.5°	74.7
75°	66.9
77.5°	59.0
80°	51.1
82.5°	44.3
85°	37.4
87.5°	30.5
90°	23.6
92.5°	17.7
95°	11.8
97.5°	6.9
100°	3.0
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)