

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: P303282

Luminaire Tested: **BLD6089BLE40AWH-5000K**

Test Date: 06/19/19

**Test Information**

Test Method: LM-41-14  
Report Number: P303282  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1906-357-2)  
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: BLD6089BLE40AWH-5000K  
Description: 6" SMART SURFACE MOUNT DOWNLIGHT 5000K  
Light Source: (84) 90 CRI LEDS  
Ballast/Driver: ELECTRICAL DRIVER

**Summary**

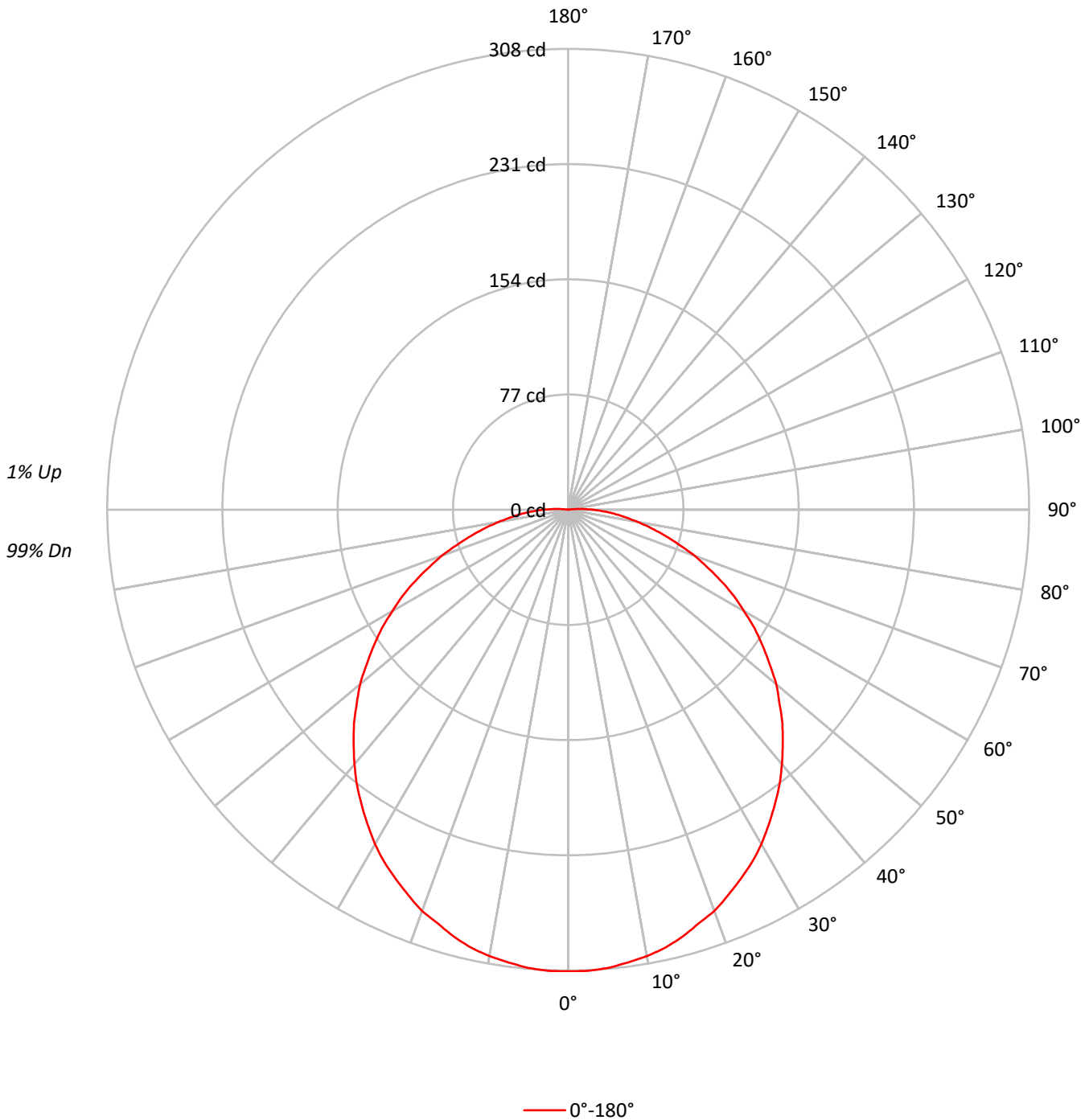
Lumens per Lamp: N/A  
Luminaire Lumens: 909.6 lumens  
Efficiency: N/A  
Efficacy: 98.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36  
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.08')  
CIE Type: Direct

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	111	111	111		106	106	106		101	101	101	99
1	108	103	98	94	105	100	96	92	96	92	89		92	89	86		88	86	83	81
2	98	89	82	76	95	87	80	75	83	78	73		80	75	71		77	73	69	67
3	89	78	69	63	86	76	68	62	73	66	61		70	64	60		68	63	59	56
4	81	69	60	53	79	68	59	53	65	58	52		62	56	51		60	55	50	48
5	75	62	52	46	73	60	52	45	58	50	45		56	49	44		54	48	44	41
6	69	55	46	40	67	54	46	39	52	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35		46	39	34		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		42	36	31		41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28		39	32	28		38	32	27	26
10	52	39	31	25	51	38	31	25	37	30	25		36	30	25		35	29	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	20127
5°	19732
10°	19286
15°	18787
20°	18281
25°	17698
30°	17158
35°	16496
40°	15839
45°	15164
50°	14446
55°	13557
60°	12639
65°	11626
70°	10458
75°	9020
80°	7635
85°	6282



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.2	3.2
10°-20°	83.3	9.2
20°-30°	125.7	13.8
30°-40°	150.7	16.6
40°-50°	156.0	17.2
50°-60°	141.9	15.6
60°-70°	111.5	12.3
70°-80°	71.2	7.8
80°-90°	33.7	3.7
90°-100°	6.4	0.7
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°	238.2	26.2
0°-40°	388.8	42.7
0°-60°	686.8	75.5
0°-90°	903.1	99.3
90°-120°	6.4	0.7
90°-150°	6.4	0.7
90°-180°	6.0	0.7
0°-180°	909.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	308	
5°	307	29
15°	295	83
25°	272	126
35°	241	151
45°	202	156
55°	159	142
65°	113	112
75°	67	71
85°	31	28
90°	16	9
95°	4	3
105°	0	0
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°	308.5
2.5°	308.5
5°	307.4
7.5°	305.2
10°	303.0
12.5°	299.8
15°	295.4
17.5°	289.9
20°	285.5
22.5°	279.0
25°	272.4
27.5°	265.8
30°	258.2
32.5°	249.4
35°	240.7
37.5°	231.9
40°	222.1
42.5°	212.2
45°	202.4
47.5°	191.5
50°	181.6
52.5°	169.6
55°	158.6
57.5°	147.7
60°	135.7
62.5°	124.7
65°	112.7
67.5°	100.6
70°	89.7
72.5°	77.7
75°	66.7
77.5°	56.9
80°	47.0
82.5°	38.3
85°	30.6
87.5°	23.0
90°	16.4
92.5°	9.8
95°	4.4
97.5°	1.1
100°	0.0
102.5°	0.0
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)