

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: P303283

Luminaire Tested: **BLD6089BLE40AWH-4000K**

Test Date: 06/19/19

**Test Information**

Test Method: LM-41-14  
Report Number: P303283  
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-4000K  
Description: 6" SMART SURFACE MOUNT DOWNLIGHT 4000K  
Light Source: (84) 90 CRI LEDS  
Ballast/Driver: ELECTRICAL DRIVER

**Summary**

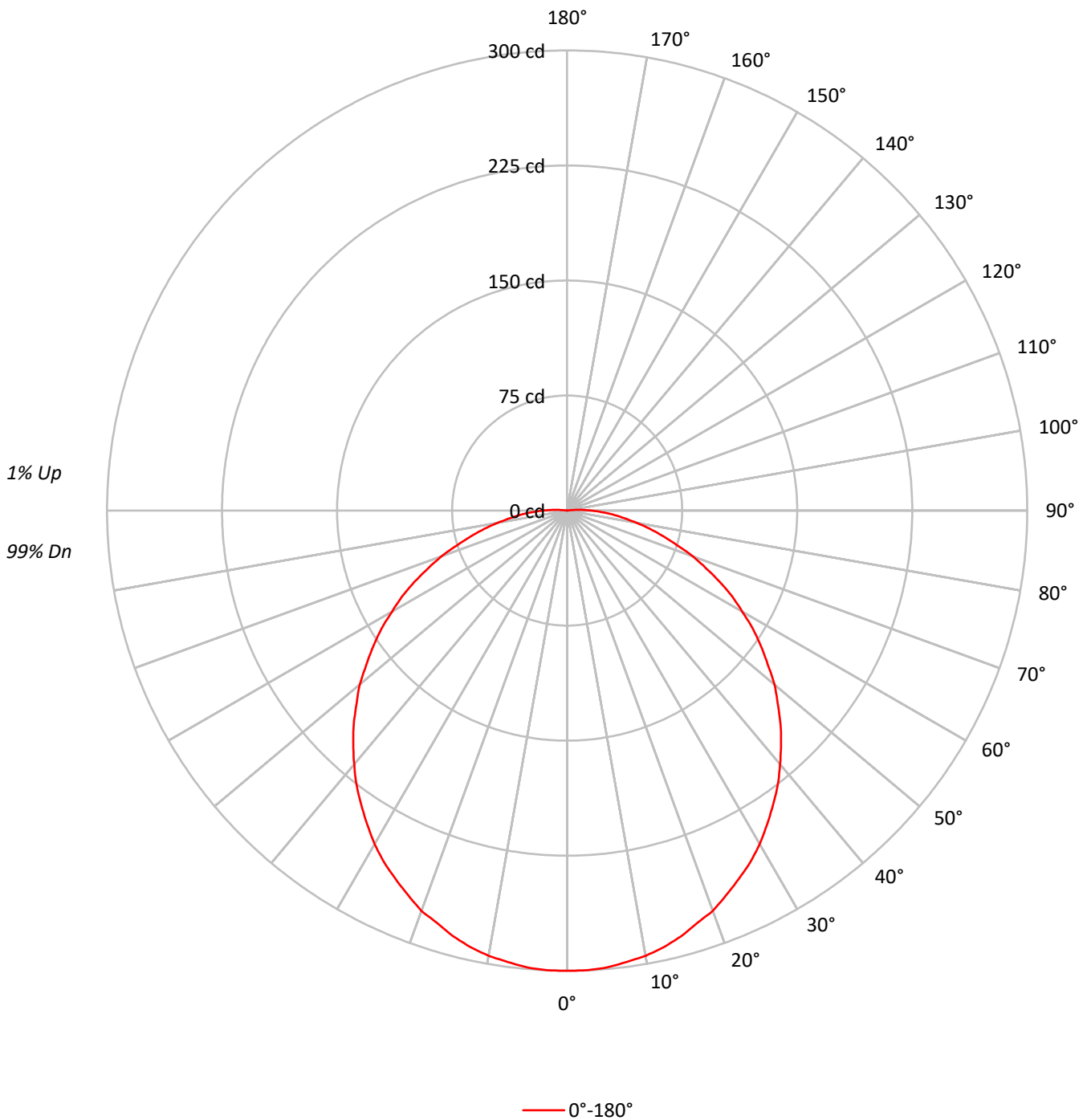
Lumens per Lamp: N/A  
Luminaire Lumens: 884.6 lumens  
Efficiency: N/A  
Efficacy: 96.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36  
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.08')  
CIE Type: Direct

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°	19572
5°	19193
10°	18757
15°	18271
20°	17782
25°	17211
30°	16686
35°	16044
40°	15404
45°	14744
50°	14048
55°	13190
60°	12285
65°	11306
70°	10167
75°	8777
80°	7440
85°	6118



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.4	3.2
10°-20°	81.0	9.2
20°-30°	122.2	13.8
30°-40°	146.6	16.6
40°-50°	151.7	17.1
50°-60°	138.0	15.6
60°-70°	108.5	12.3
70°-80°	69.2	7.8
80°-90°	32.7	3.7
90°-100°	6.3	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°	231.6	26.2
0°-40°	378.2	42.7
0°-60°	667.9	75.5
0°-90°	878.3	99.3
90°-120°	6.3	0.7
90°-150°	6.3	0.7
90°-180°	6.0	0.7
0°-180°	884.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	300	
5°	299	28
15°	287	81
25°	265	122
35°	234	147
45°	197	152
55°	154	138
65°	110	108
75°	65	69
85°	30	27
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°	300.0
2.5°	300.0
5°	299.0
7.5°	296.8
10°	294.7
12.5°	291.5
15°	287.3
17.5°	281.9
20°	277.7
22.5°	271.3
25°	264.9
27.5°	258.5
30°	251.1
32.5°	242.6
35°	234.1
37.5°	225.6
40°	216.0
42.5°	206.4
45°	196.8
47.5°	186.2
50°	176.6
52.5°	164.9
55°	154.3
57.5°	143.6
60°	131.9
62.5°	121.3
65°	109.6
67.5°	97.9
70°	87.2
72.5°	75.5
75°	64.9
77.5°	55.3
80°	45.8
82.5°	37.2
85°	29.8
87.5°	22.3
90°	16.0
92.5°	9.6
95°	4.3
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)