

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: P303286

Luminaire Tested: **BLD6089BLE40AWH-2700K**

Test Date: 06/19/19

**Test Information**

Test Method: LM-41-14  
Report Number: P303286  
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-2700K  
Description: 6" SMART SURFACE MOUNT DOWNLIGHT 2700K  
Light Source: (84) 90 CRI LEDS  
Ballast/Driver: ELECTRICAL DRIVER

**Summary**

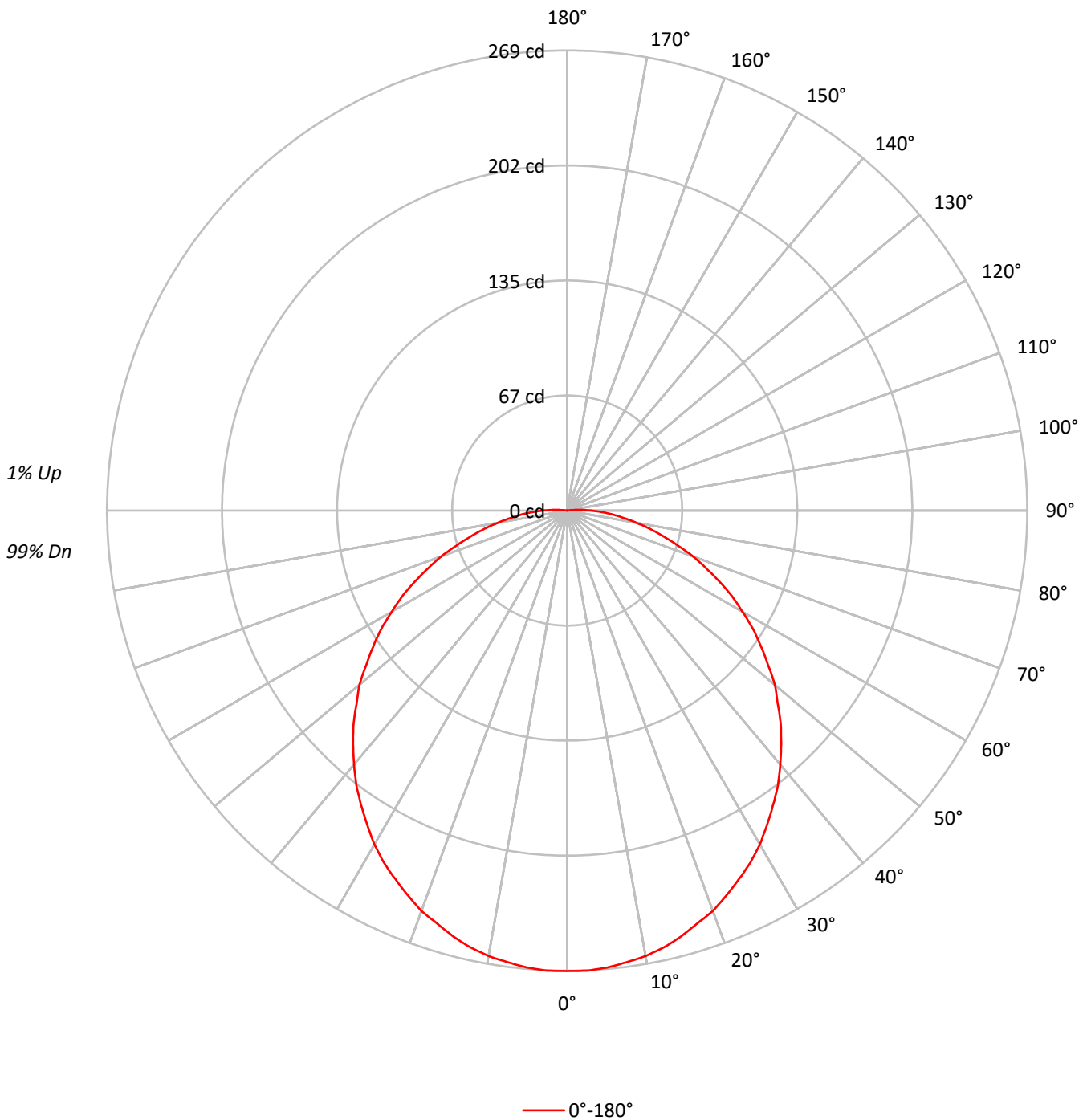
Lumens per Lamp: N/A  
Luminaire Lumens: 793.6 lumens  
Efficiency: N/A  
Efficacy: 85.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36  
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 9.3  
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°	17563
5°	17216
10°	16829
15°	16389
20°	15950
25°	15444
30°	14972
35°	14392
40°	13820
45°	13231
50°	12609
55°	11831
60°	11027
65°	10141
70°	9129
75°	7871
80°	6660
85°	5482



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.5	3.2
10°-20°	72.7	9.2
20°-30°	109.6	13.8
30°-40°	131.5	16.6
40°-50°	136.1	17.2
50°-60°	123.9	15.6
60°-70°	97.3	12.3
70°-80°	62.1	7.8
80°-90°	29.4	3.7
90°-100°	5.6	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°	207.8	26.2
0°-40°	339.3	42.7
0°-60°	599.2	75.5
0°-90°	788.0	99.3
90°-120°	5.6	0.7
90°-150°	5.6	0.7
90°-180°	6.0	0.8
0°-180°	793.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	269	
5°	268	25
15°	258	73
25°	238	110
35°	210	131
45°	177	136
55°	138	124
65°	98	97
75°	58	62
85°	27	25
90°	14	8
95°	4	2
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°	269.2
2.5°	269.2
5°	268.2
7.5°	266.3
10°	264.4
12.5°	261.5
15°	257.7
17.5°	253.0
20°	249.1
22.5°	243.4
25°	237.7
27.5°	232.0
30°	225.3
32.5°	217.6
35°	210.0
37.5°	202.4
40°	193.8
42.5°	185.2
45°	176.6
47.5°	167.0
50°	158.5
52.5°	148.0
55°	138.4
57.5°	128.9
60°	118.4
62.5°	108.8
65°	98.3
67.5°	87.8
70°	78.3
72.5°	67.8
75°	58.2
77.5°	49.6
80°	41.0
82.5°	33.4
85°	26.7
87.5°	20.0
90°	14.3
92.5°	8.6
95°	3.8
97.5°	1.0
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)