

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: P248238

Luminaire Tested: **BLD4089SWH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P248238  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1804-735-1)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: BLD4089SWH  
Description: 4" BLD, 800 SeleCCT Series, Matte White  
Light Source: (48) 3000K CCT, 92 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

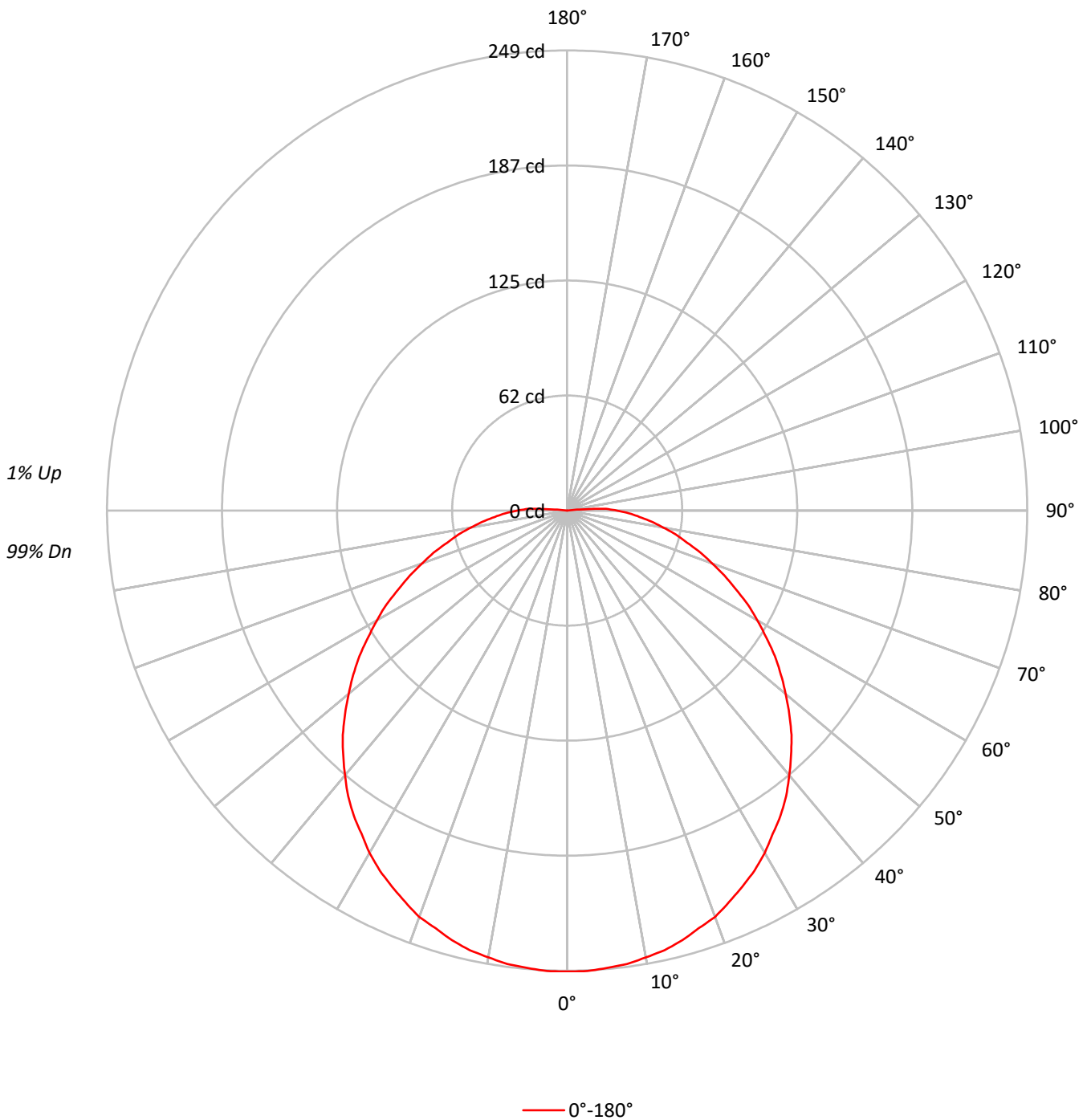
Lumens per Lamp: N/A  
Luminaire Lumens: 802.0 lumens  
Efficiency: N/A  
Efficacy: 77.9 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.4  
Luminous Opening: Vertical Cylinder (Dia: 0.25' x H: 0.06')  
CIE Type: Direct

Input Watts (W): 10.3  
Input Voltage (V): NR  
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		101	101	101	99
1	107	101	96	92	104	99	94	90	94	90	87		90	87	84		86	83	81	79
2	96	87	80	73	93	85	78	72	81	75	70		78	73	69		74	70	67	64
3	87	76	67	60	85	74	66	60	71	64	58		68	62	57		65	60	56	54
4	80	67	58	51	77	66	57	50	63	55	49		60	54	49		58	52	48	45
5	73	60	50	44	71	59	50	43	56	49	43		54	47	42		52	46	41	39
6	68	54	45	38	66	53	44	38	51	43	37		49	42	37		47	41	36	34
7	63	49	40	33	61	48	39	33	46	38	33		45	38	32		43	37	32	30
8	58	44	36	30	57	44	35	29	42	35	29		41	34	29		40	33	29	27
9	55	41	32	27	53	40	32	26	39	31	26		38	31	26		36	30	26	24
10	51	38	29	24	50	37	29	24	36	29	24		35	28	24		34	28	23	22

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

	0°
0°	54689
5°	53196
10°	51759
15°	50348
20°	48935
25°	47276
30°	45752
35°	44087
40°	42245
45°	40389
50°	38186
55°	36060
60°	33613
65°	31052
70°	28524
75°	25983
80°	23768
85°	21318



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	23.6	2.9
10°-20°	67.9	8.5
20°-30°	103.5	12.9
30°-40°	125.9	15.7
40°-50°	132.2	16.5
50°-60°	122.4	15.3
60°-70°	100.1	12.5
70°-80°	71.7	8.9
80°-90°	43.3	5.4
90°-100°	11.3	1.4
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°	195.1	24.3
0°-40°	321.0	40.0
0°-60°	575.7	71.8
0°-90°	790.7	98.6
90°-120°	11.3	1.4
90°-150°	11.3	1.4
90°-180°	11.0	1.4
0°-180°	802.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	249	
5°	248	24
15°	241	68
25°	224	104
35°	201	126
45°	172	132
55°	137	122
65°	101	100
75°	67	72
85°	39	35
90°	27	15
95°	7	5
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°	249.4
2.5°	249.4
5°	248.4
7.5°	247.5
10°	245.5
12.5°	243.6
15°	240.7
17.5°	236.9
20°	234.0
22.5°	229.2
25°	224.4
27.5°	219.6
30°	213.9
32.5°	207.2
35°	201.4
37.5°	194.7
40°	187.0
42.5°	179.4
45°	171.7
47.5°	163.0
50°	154.4
52.5°	145.8
55°	137.2
57.5°	127.6
60°	118.9
62.5°	110.3
65°	100.7
67.5°	92.1
70°	83.4
72.5°	75.8
75°	67.1
77.5°	60.4
80°	52.8
82.5°	46.0
85°	39.3
87.5°	33.6
90°	26.9
92.5°	21.1
95°	6.7
97.5°	0.0
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)