

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: P303265

Luminaire Tested: **HHA19089BLE40A 3000K**

Test Date: 06/14/2019



Test Information

Test Method: LM-41-14
Report Number: P303265
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1906-359-1)
Test Lab: INNOVATION CENTER(G1)
Test Date: 06/14/2019
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: HHA19089BLE40A 3000K
Description: HALO A19 BLE COLOR TUNING BULB
Light Source: 90 CRI LEDs
Ballast/Driver: ELECTRICAL DRIVER

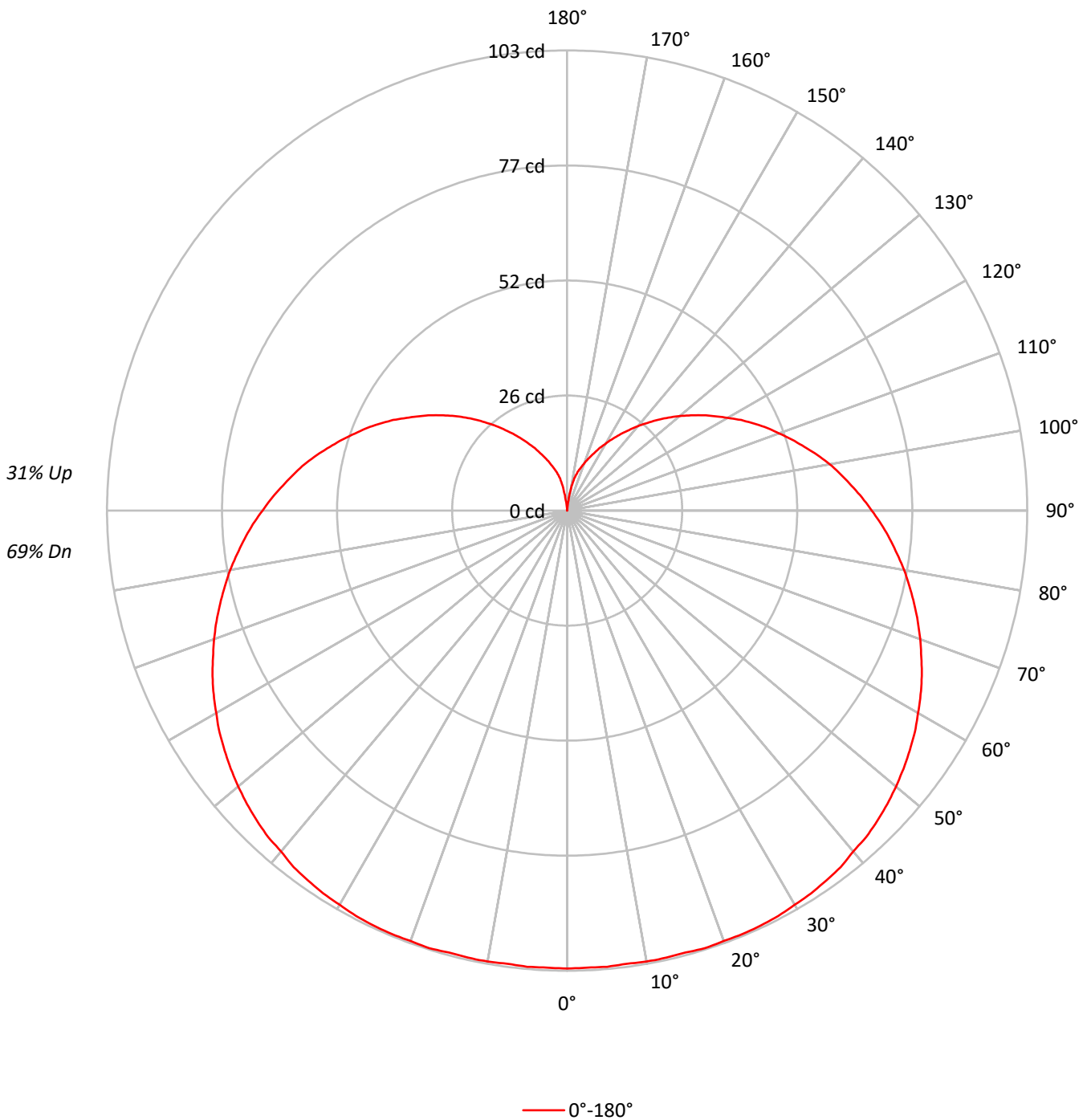
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 812.6 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Spacing Criteria (0/90/45): 1.51 / 1.51 / 1.68
Luminous Opening: Vertical Cylinder (Dia: 0.19' x H: 0.15')
CIE Type: Semi-Direct

Input Watts (W): 9.4
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

TEST NUMBER: P303265
CATALOG NUMBER: HHA19089BLE40A 3000K

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	112	112	112	112	105	105	105	105	94	94	94	83	83	83	74	74	74	69
1	97	91	85	80	91	85	80	76	75	71	67	66	63	60	58	55	53	48
2	87	77	68	62	81	72	65	58	63	57	52	55	51	46	48	44	41	37
3	78	66	57	49	73	62	54	47	55	48	42	48	42	37	41	37	33	29
4	71	58	48	40	66	54	45	38	48	40	35	42	36	31	36	31	27	24
5	65	51	41	34	60	48	39	32	42	35	29	37	31	26	32	27	23	20
6	59	45	36	29	55	43	34	28	38	30	25	33	27	22	29	24	20	17
7	55	41	31	25	51	38	30	24	34	27	22	30	24	19	26	21	17	15
8	51	37	28	22	47	35	27	21	31	24	19	27	21	17	24	19	15	13
9	47	33	25	19	44	32	24	19	28	21	17	25	19	15	22	17	13	11
10	44	31	23	17	41	29	22	16	26	19	15	23	17	14	20	15	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	39958
5°	36912
10°	34543
15°	32661
20°	31256
25°	30161
30°	29184
35°	28412
40°	27682
45°	27201
50°	26733
55°	26350
60°	26044
65°	25868
70°	25762
75°	25788
80°	25991
85°	26323



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.8	1.2
10°-20°	29.1	3.6
20°-30°	47.4	5.8
30°-40°	63.4	7.8
40°-50°	75.9	9.3
50°-60°	83.9	10.3
60°-70°	86.8	10.7
70°-80°	85.0	10.5
80°-90°	79.0	9.7
90°-100°	69.8	8.6
100°-110°	58.3	7.2
110°-120°	45.8	5.6
120°-130°	33.4	4.1
130°-140°	22.3	2.7
140°-150°	13.2	1.6
150°-160°	6.7	0.8
160°-170°	2.5	0.3
170°-180°	0.2	0.0
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0°-30°	86.2	10.6
0°-40°	149.7	18.4
0°-60°	309.5	38.1
0°-90°	560.3	69.0
90°-120°	173.9	21.4
90°-150°	242.9	29.9
90°-180°	252.0	31.0
0°-180°	812.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	102	
5°	102	10
15°	102	29
25°	102	47
35°	101	63
45°	98	76
55°	94	84
65°	88	87
75°	80	85
85°	72	60
90°	68	37
95°	64	51
105°	55	58
115°	46	46
125°	37	33
135°	29	22
145°	21	13
155°	14	7
165°	9	3
175°	0	0
180°	0	



TEST NUMBER: P303265

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CANDELA DISTRIBUTION (FULL):

0°	
0°	102.5
2.5°	102.4
5°	102.5
7.5°	102.3
10°	102.5
12.5°	102.5
15°	102.4
17.5°	102.7
20°	102.5
22.5°	102.6
25°	102.5
27.5°	102.3
30°	101.9
32.5°	101.6
35°	101.1
37.5°	100.6
40°	99.6
42.5°	99.1
45°	98.2
47.5°	97.2
50°	96.1
52.5°	94.9
55°	93.6
57.5°	92.3
60°	90.7
62.5°	89.2
65°	87.6
67.5°	85.8
70°	84.1
72.5°	82.3
75°	80.4
77.5°	78.5
80°	76.6
82.5°	74.5
85°	72.5
87.5°	70.4
90°	68.2
92.5°	66.1
95°	63.9
97.5°	61.8
100°	59.7
102.5°	57.4
105°	55.0
107.5°	52.8
110°	50.5



TEST NUMBER: P303265

CATALOG NUMBER: HHA19089BLE40A 3000K

CANDELA DISTRIBUTION (continued):

	0°
112.5°	48.4
115°	46.1
117.5°	43.9
120°	41.5
122.5°	39.3
125°	37.2
127.5°	35.0
130°	32.9
132.5°	30.8
135°	28.7
137.5°	26.6
140°	24.7
142.5°	22.7
145°	20.9
147.5°	19.1
150°	17.3
152.5°	15.8
155°	14.1
157.5°	12.7
160°	11.3
162.5°	10.0
165°	8.8
167.5°	7.4
170°	5.2
172.5°	2.3
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)