

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: P286931

Luminaire Tested: **HLC4079401EWH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P286931
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1901-118-10)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: HLC4079401EWH
Description: HALO HLC 4 INCH SELECTABLE CCT LED FIXTURE
Light Source: (14) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

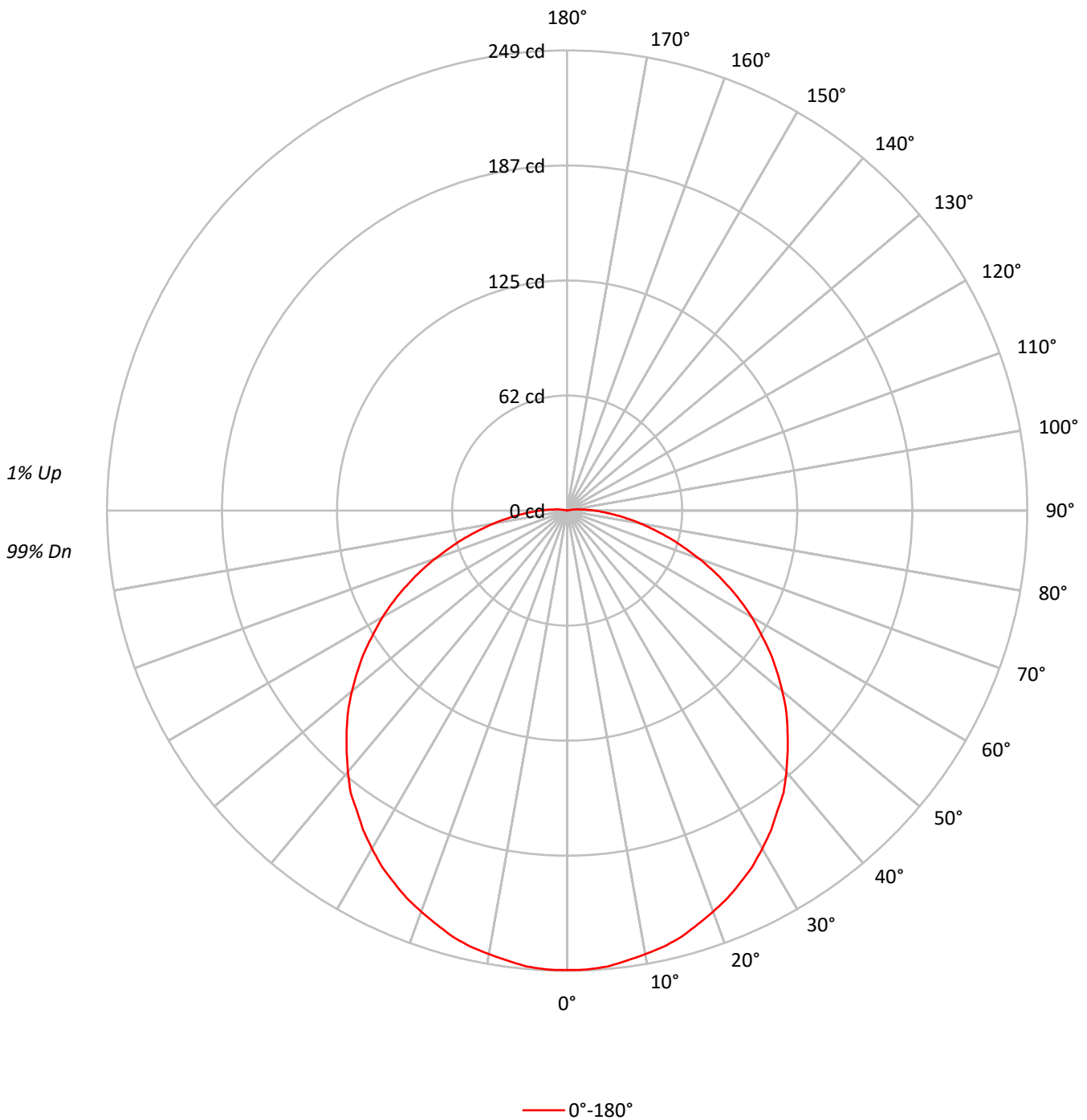
Lumens per Lamp: N/A
Luminaire Lumens: 761.0 lumens
Efficiency: N/A
Efficacy: 61.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.39
Luminous Opening: Vertical Cylinder (Dia: 0.29' x H: 0.04')
CIE Type: Direct

Input Watts (W): 12.3
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	110	110	110		105	105	105		101	101	101	99
1	107	102	98	93	105	100	96	92	95	92	89		91	88	86		87	85	83	81
2	97	89	81	75	95	87	80	74	83	77	72		79	75	70		76	72	69	66
3	89	77	69	62	86	76	68	62	73	66	60		70	64	59		67	62	58	56
4	81	68	59	52	78	67	59	52	64	57	51		62	55	50		59	54	49	47
5	74	61	52	45	72	60	51	45	58	50	44		55	49	43		53	48	43	41
6	69	55	46	39	67	54	45	39	52	44	38		50	43	38		48	42	38	35
7	64	50	41	34	62	49	40	34	47	40	34		46	39	34		44	38	33	31
8	59	45	37	31	57	45	36	31	43	36	30		42	35	30		40	34	30	28
9	55	42	33	28	54	41	33	27	40	32	27		38	32	27		37	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25		36	29	25		35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	40050
5°	39430
10°	38628
15°	37978
20°	37128
25°	36377
30°	35555
35°	34594
40°	33664
45°	32521
50°	31309
55°	29921
60°	28275
65°	26244
70°	23870
75°	21208
80°	18495
85°	15429



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.5	3.1
10°-20°	67.3	8.8
20°-30°	102.4	13.5
30°-40°	124.3	16.3
40°-50°	130.2	17.1
50°-60°	119.7	15.7
60°-70°	94.7	12.5
70°-80°	60.7	8.0
80°-90°	28.8	3.8
90°-100°	8.6	1.1
100°-110°	0.7	0.1
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°	193.2	25.4
0°-40°	317.5	41.7
0°-60°	567.5	74.6
0°-90°	751.7	98.8
90°-120°	9.3	1.2
90°-150°	9.3	1.2
90°-180°	9.0	1.2
0°-180°	761.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	249	
5°	248	24
15°	239	67
25°	222	102
35°	198	124
45°	169	130
55°	134	120
65°	96	95
75°	57	61
85°	26	24
90°	15	8
95°	7	5
105°	0	1
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°	248.6
2.5°	248.6
5°	247.7
7.5°	245.7
10°	243.7
12.5°	241.7
15°	238.8
17.5°	234.8
20°	230.9
22.5°	226.9
25°	222.0
27.5°	217.1
30°	211.2
32.5°	205.2
35°	198.3
37.5°	192.4
40°	184.5
42.5°	176.6
45°	168.7
47.5°	160.8
50°	152.0
52.5°	143.1
55°	134.2
57.5°	124.3
60°	115.4
62.5°	105.6
65°	95.7
67.5°	85.8
70°	76.0
72.5°	66.1
75°	57.2
77.5°	48.3
80°	40.5
82.5°	32.6
85°	25.7
87.5°	19.7
90°	14.8
92.5°	10.9
95°	6.9
97.5°	4.9
100°	3.0
102.5°	1.0
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)