

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: P294421

Luminaire Tested: **HLC4079501EWH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P294421
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: HLC4079501EWH
Description: HALO HLC 4 INCH SELECTABLE CCT LED FIXTURE
Light Source: (14) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

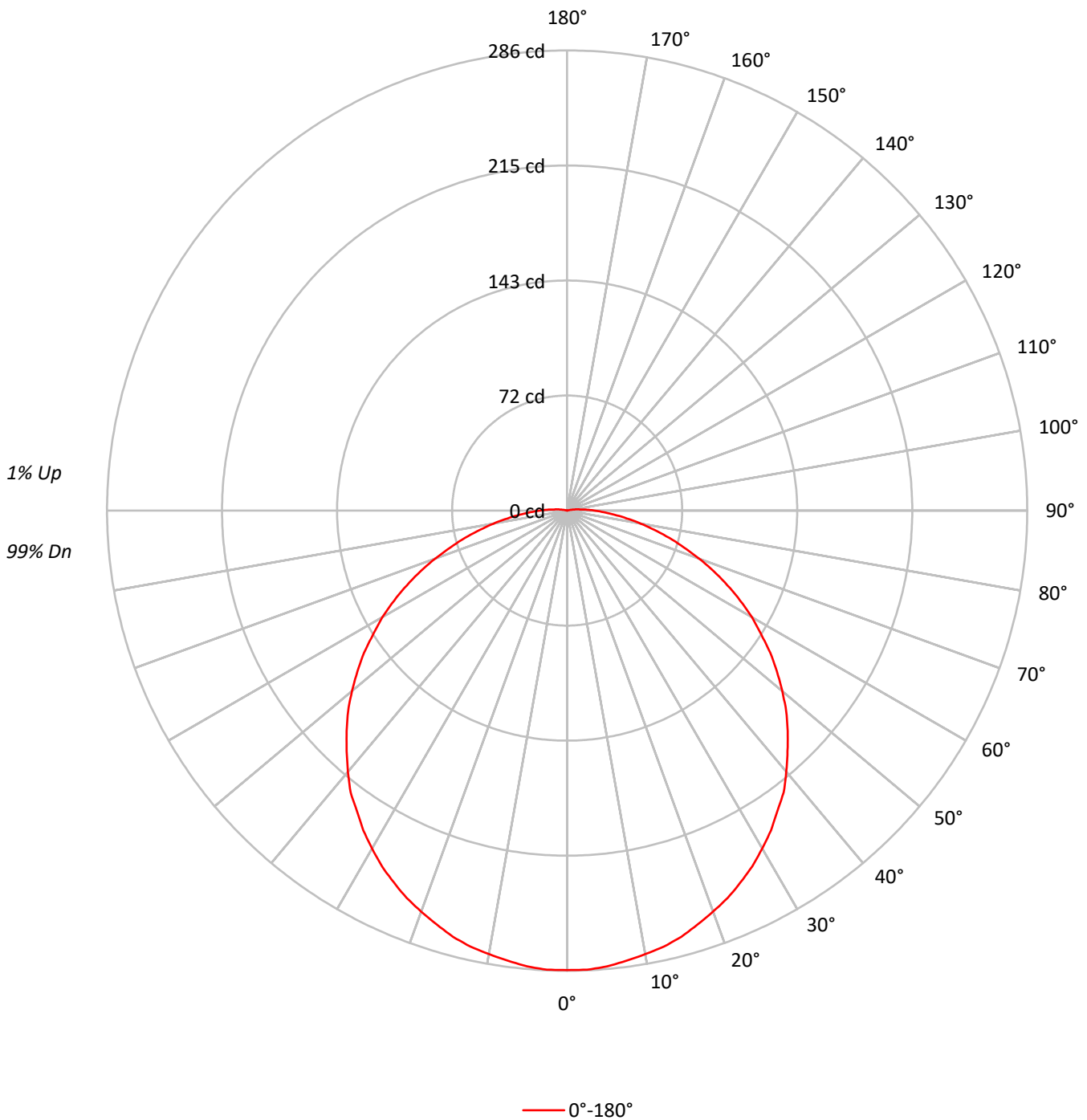
Lumens per Lamp: N/A
Luminaire Lumens: 874.0 lumens
Efficiency: N/A
Efficacy: 69.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.39
Luminous Opening: Vertical Cylinder (Dia: 0.29' x H: 0.04')
CIE Type: Direct

Input Watts (W): 12.5
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°	46011
5°	45272
10°	44366
15°	43608
20°	42644
25°	41784
30°	40824
35°	39740
40°	38663
45°	37359
50°	35944
55°	34358
60°	32489
65°	30138
70°	27419
75°	24359
80°	21235
85°	17710



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.0	3.1
10°-20°	77.3	8.8
20°-30°	117.6	13.5
30°-40°	142.8	16.3
40°-50°	149.6	17.1
50°-60°	137.5	15.7
60°-70°	108.8	12.5
70°-80°	69.7	8.0
80°-90°	33.1	3.8
90°-100°	9.9	1.1
100°-110°	0.8	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°	221.9	25.4
0°-40°	364.7	41.7
0°-60°	651.8	74.6
0°-90°	863.3	98.8
90°-120°	10.7	1.2
90°-150°	10.7	1.2
90°-180°	11.0	1.3
0°-180°	874.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	286	
5°	284	27
15°	274	77
25°	255	118
35°	228	143
45°	194	150
55°	154	138
65°	110	109
75°	66	70
85°	30	28
90°	17	9
95°	8	6
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°	285.6
2.5°	285.6
5°	284.4
7.5°	282.2
10°	279.9
12.5°	277.6
15°	274.2
17.5°	269.7
20°	265.2
22.5°	260.6
25°	255.0
27.5°	249.3
30°	242.5
32.5°	235.7
35°	227.8
37.5°	221.0
40°	211.9
42.5°	202.8
45°	193.8
47.5°	184.7
50°	174.5
52.5°	164.3
55°	154.1
57.5°	142.8
60°	132.6
62.5°	121.3
65°	109.9
67.5°	98.6
70°	87.3
72.5°	75.9
75°	65.7
77.5°	55.5
80°	46.5
82.5°	37.4
85°	29.5
87.5°	22.7
90°	17.0
92.5°	12.5
95°	7.9
97.5°	5.7
100°	3.4
102.5°	1.1
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)