

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: P286930

Luminaire Tested: **HLC4079301EWH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P286930
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: HLC4079301EWH
Description: HALO HLC 4 INCH SELECTABLE CCT LED FIXTURE
Light Source: (14) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

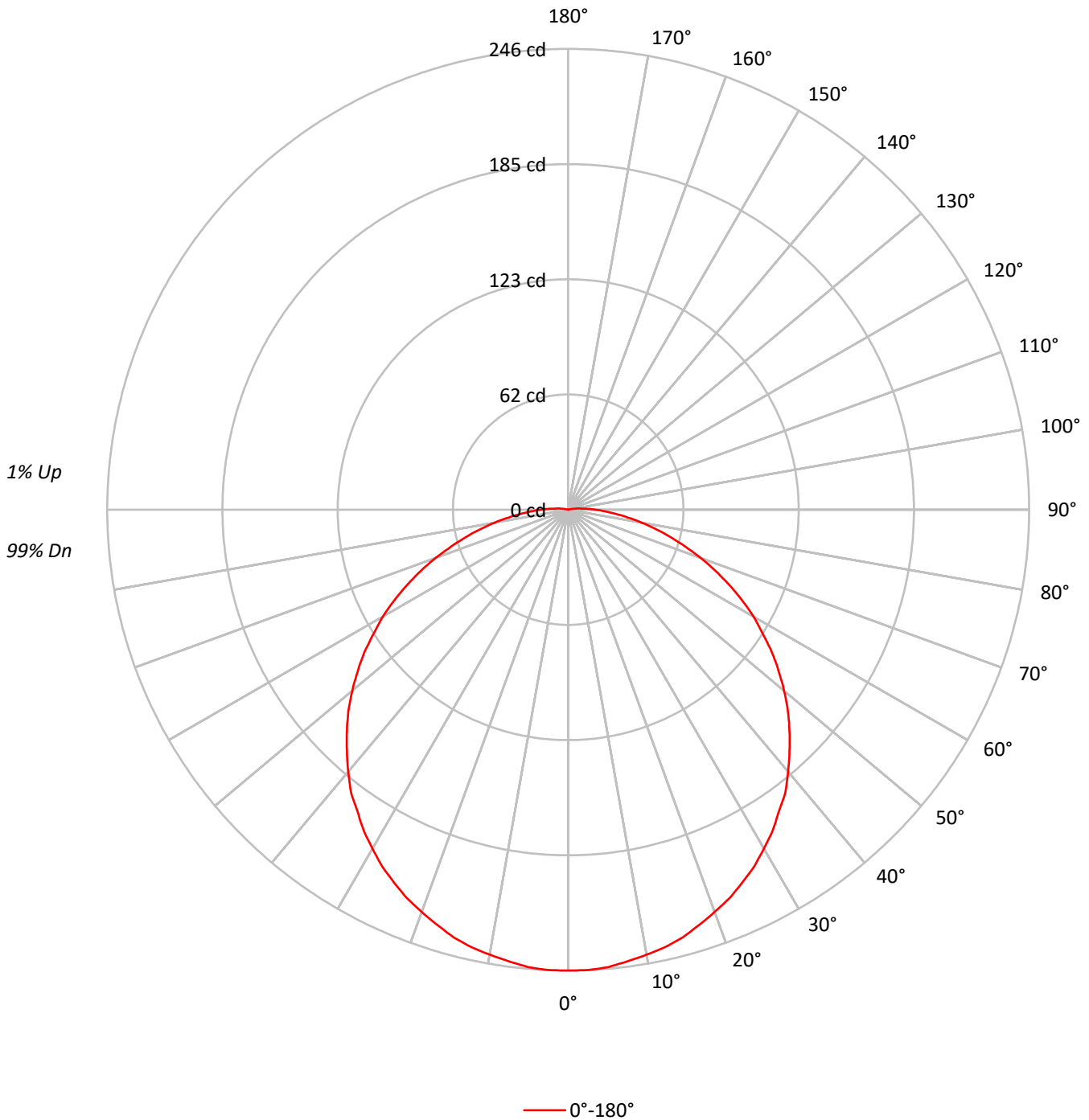
Lumens per Lamp: N/A
Luminaire Lumens: 753.0 lumens
Efficiency: N/A
Efficacy: 59.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.39
Luminous Opening: Vertical Cylinder (Dia: 0.29' x H: 0.04')
CIE Type: Direct

Input Watts (W): 12.6
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°	39632
5°	39016
10°	38232
15°	37580
20°	36742
25°	36000
30°	35168
35°	34228
40°	33317
45°	32193
50°	30980
55°	29609
60°	27981
65°	25970
70°	23619
75°	20985
80°	18267
85°	15249



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.3	3.1
10°-20°	66.6	8.8
20°-30°	101.3	13.5
30°-40°	123.0	16.3
40°-50°	128.9	17.1
50°-60°	118.5	15.7
60°-70°	93.8	12.5
70°-80°	60.0	8.0
80°-90°	28.4	3.8
90°-100°	8.5	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°	191.2	25.4
0°-40°	314.2	41.7
0°-60°	561.6	74.6
0°-90°	743.8	98.8
90°-120°	9.2	1.2
90°-150°	9.2	1.2
90°-180°	9.0	1.2
0°-180°	753.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	246	
5°	245	23
15°	236	67
25°	220	101
35°	196	123
45°	167	129
55°	133	118
65°	95	94
75°	57	60
85°	25	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°	246.0
2.5°	246.0
5°	245.1
7.5°	243.1
10°	241.2
12.5°	239.2
15°	236.3
17.5°	232.4
20°	228.5
22.5°	224.6
25°	219.7
27.5°	214.8
30°	208.9
32.5°	203.1
35°	196.2
37.5°	190.4
40°	182.6
42.5°	174.8
45°	167.0
47.5°	159.1
50°	150.4
52.5°	141.6
55°	132.8
57.5°	123.0
60°	114.2
62.5°	104.5
65°	94.7
67.5°	84.9
70°	75.2
72.5°	65.4
75°	56.6
77.5°	47.8
80°	40.0
82.5°	32.2
85°	25.4
87.5°	19.5
90°	14.6
92.5°	10.7
95°	6.8
97.5°	4.9
100°	2.9
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)