

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: P286933

Luminaire Tested: **HLC6099401EWH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P286933  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1901-118-1)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: HLC6099401EWH  
Description: HALO HLC 6 INCH SELECTABLE CCT LED FIXTURE  
Light Source: (14) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

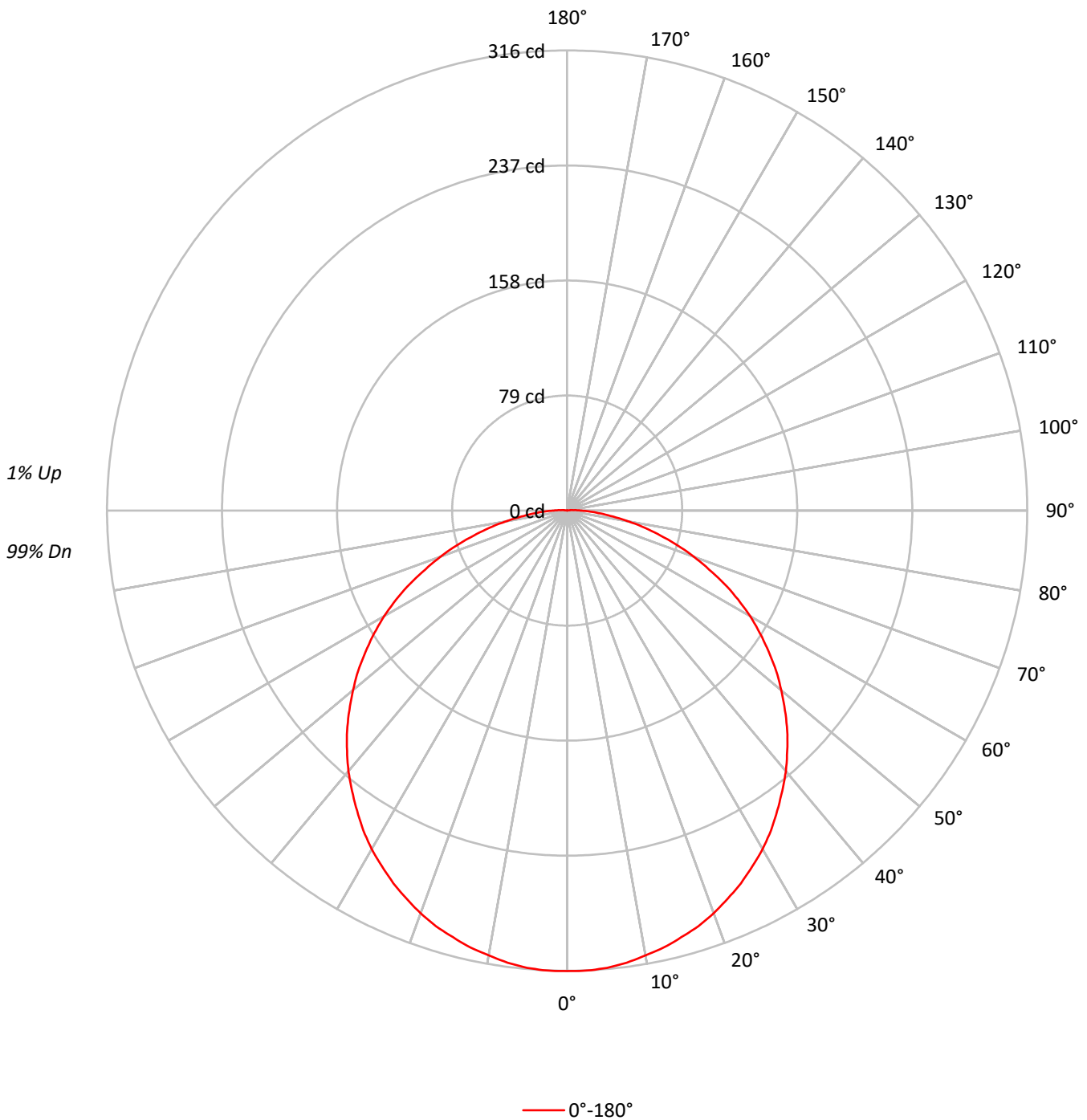
Lumens per Lamp: N/A  
Luminaire Lumens: 939.0 lumens  
Efficiency: N/A  
Efficacy: 59.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38  
Luminous Opening: Vertical Cylinder (Dia: 0.38' x H: 0.04')  
CIE Type: Direct

Input Watts (W): 15.7  
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	111	111	111	106	106	106	102	102	102	99
1	108	103	99	95	105	101	97	93	96	93	90	92	90	87	89	86	84	82
2	98	89	82	76	95	88	81	75	84	78	74	80	76	72	77	74	70	68
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	54	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	31	29
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

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

	0°
0°	30816
5°	30459
10°	29951
15°	29484
20°	29028
25°	28488
30°	27934
35°	27236
40°	26577
45°	25815
50°	24898
55°	23889
60°	22732
65°	21107
70°	18980
75°	16413
80°	13328
85°	9785



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.9	3.2
10°-20°	85.7	9.1
20°-30°	130.1	13.9
30°-40°	157.5	16.8
40°-50°	164.7	17.5
50°-60°	151.1	16.1
60°-70°	117.7	12.5
70°-80°	70.8	7.5
80°-90°	26.4	2.8
90°-100°	4.5	0.5
100°-110°	0.4	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°	245.7	26.2
0°-40°	403.3	42.9
0°-60°	719.1	76.6
0°-90°	934.1	99.5
90°-120°	4.9	0.5
90°-150°	4.9	0.5
90°-180°	5.0	0.5
0°-180°	939.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	316	
5°	315	30
15°	303	86
25°	282	130
35°	252	158
45°	214	165
55°	169	151
65°	119	118
75°	67	71
85°	23	23
90°	10	6
95°	3	2
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°	316.2
2.5°	316.2
5°	315.2
7.5°	313.2
10°	310.2
12.5°	307.3
15°	303.3
17.5°	299.3
20°	294.3
22.5°	288.4
25°	282.4
27.5°	275.4
30°	268.5
32.5°	260.5
35°	251.6
37.5°	242.6
40°	233.7
42.5°	223.7
45°	213.8
47.5°	202.9
50°	191.9
52.5°	181.0
55°	169.0
57.5°	157.1
60°	145.2
62.5°	132.3
65°	119.3
67.5°	105.4
70°	92.5
72.5°	79.6
75°	66.6
77.5°	54.7
80°	42.8
82.5°	31.8
85°	22.9
87.5°	15.9
90°	9.9
92.5°	6.0
95°	3.0
97.5°	2.0
100°	1.0
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)