

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: P295440

Luminaire Tested: **HLB305950EMW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P295440
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1901-077-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: HLB305950EMW
Description: 3 IN SQUARE HALO BLADE - 5000K
Light Source: -
Ballast/Driver: -

Summary

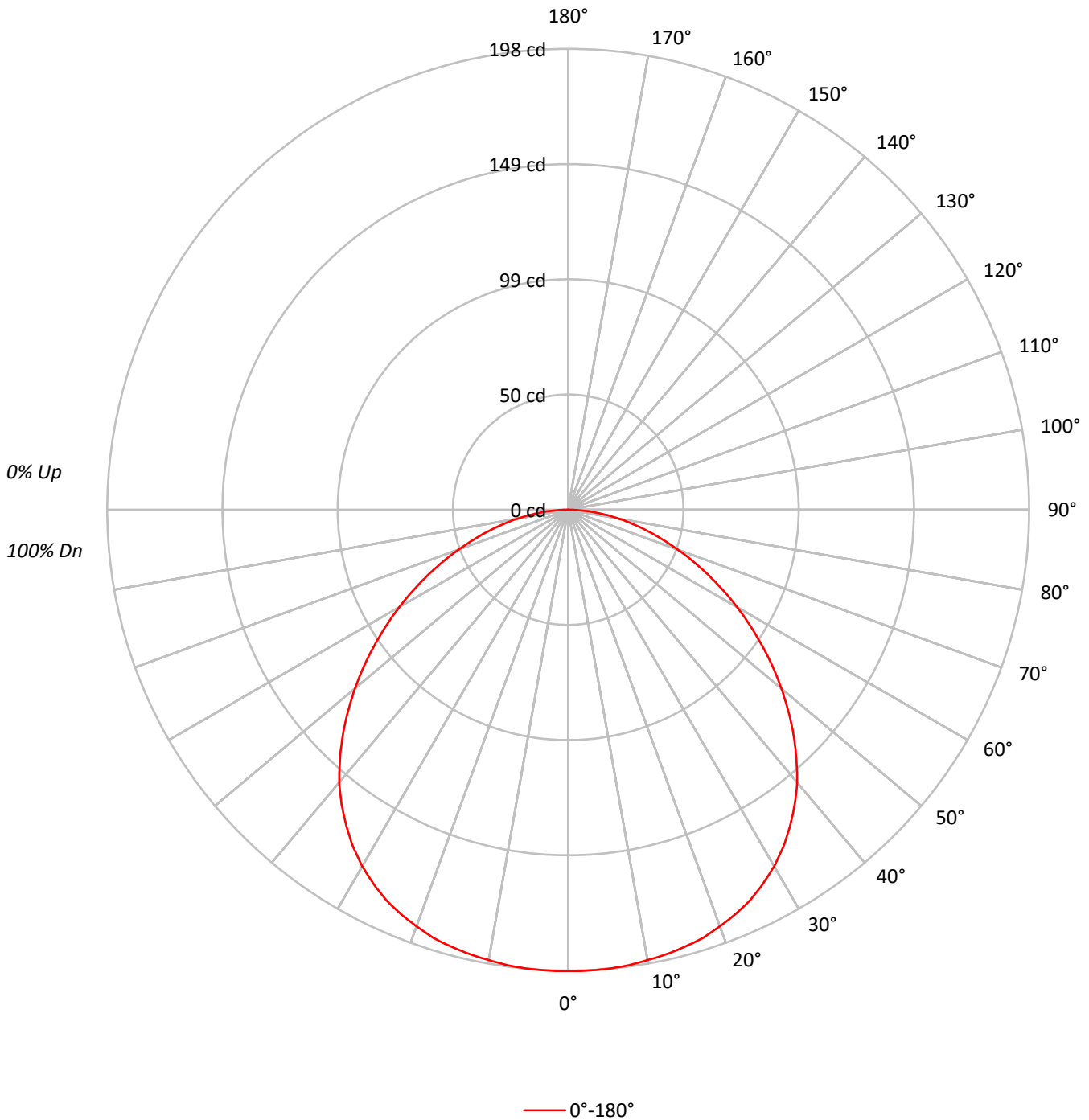
Lumens per Lamp: N/A
Luminaire Lumens: 574.0 lumens
Efficiency: N/A
Efficacy: 63.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.31 / 1.4
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 9
Input Voltage (V): NR
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	100
1	109	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63	73	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	43505
5°	43583
10°	43753
15°	44109
20°	44454
25°	44761
30°	44792
35°	44464
40°	43796
45°	42454
50°	40766
55°	38842
60°	36751
65°	34504
70°	32121
75°	29907
80°	27781
85°	25411



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.9	3.3
10°-20°	54.9	9.6
20°-30°	85.2	14.8
30°-40°	103.8	18.1
40°-50°	105.5	18.4
50°-60°	90.9	15.8
60°-70°	65.9	11.5
70°-80°	37.5	6.5
80°-90°	11.3	2.0
90°-100°	0.1	0.0
100°-110°	0.0	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°	159.0	27.7
0°-40°	262.8	45.8
0°-60°	459.1	80.0
0°-90°	573.9	100.0
90°-120°	0.1	0.0
90°-150°	0.1	0.0
90°-180°	0.0	0.0
0°-180°	574.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	198	
5°	198	19
15°	194	55
25°	185	85
35°	166	104
45°	137	105
55°	102	91
65°	66	66
75°	35	38
85°	10	11
90°	0	1
95°	0	0
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	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	198.4
2.5°	198.2
5°	198.0
7.5°	197.5
10°	196.5
12.5°	195.6
15°	194.3
17.5°	192.9
20°	190.5
22.5°	188.0
25°	185.0
27.5°	181.2
30°	176.9
32.5°	171.9
35°	166.1
37.5°	159.8
40°	153.0
42.5°	145.1
45°	136.9
47.5°	128.3
50°	119.5
52.5°	110.7
55°	101.6
57.5°	92.6
60°	83.8
62.5°	75.0
65°	66.5
67.5°	58.1
70°	50.1
72.5°	42.5
75°	35.3
77.5°	28.5
80°	22.0
82.5°	15.8
85°	10.1
87.5°	4.6
90°	0.4
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
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)