

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: P295438

Luminaire Tested: **HLB305935EMW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P295438  
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: HLB305935EMW  
Description: 3 IN SQUARE HALO BLADE - 3500K  
Light Source: -  
Ballast/Driver: -

**Summary**

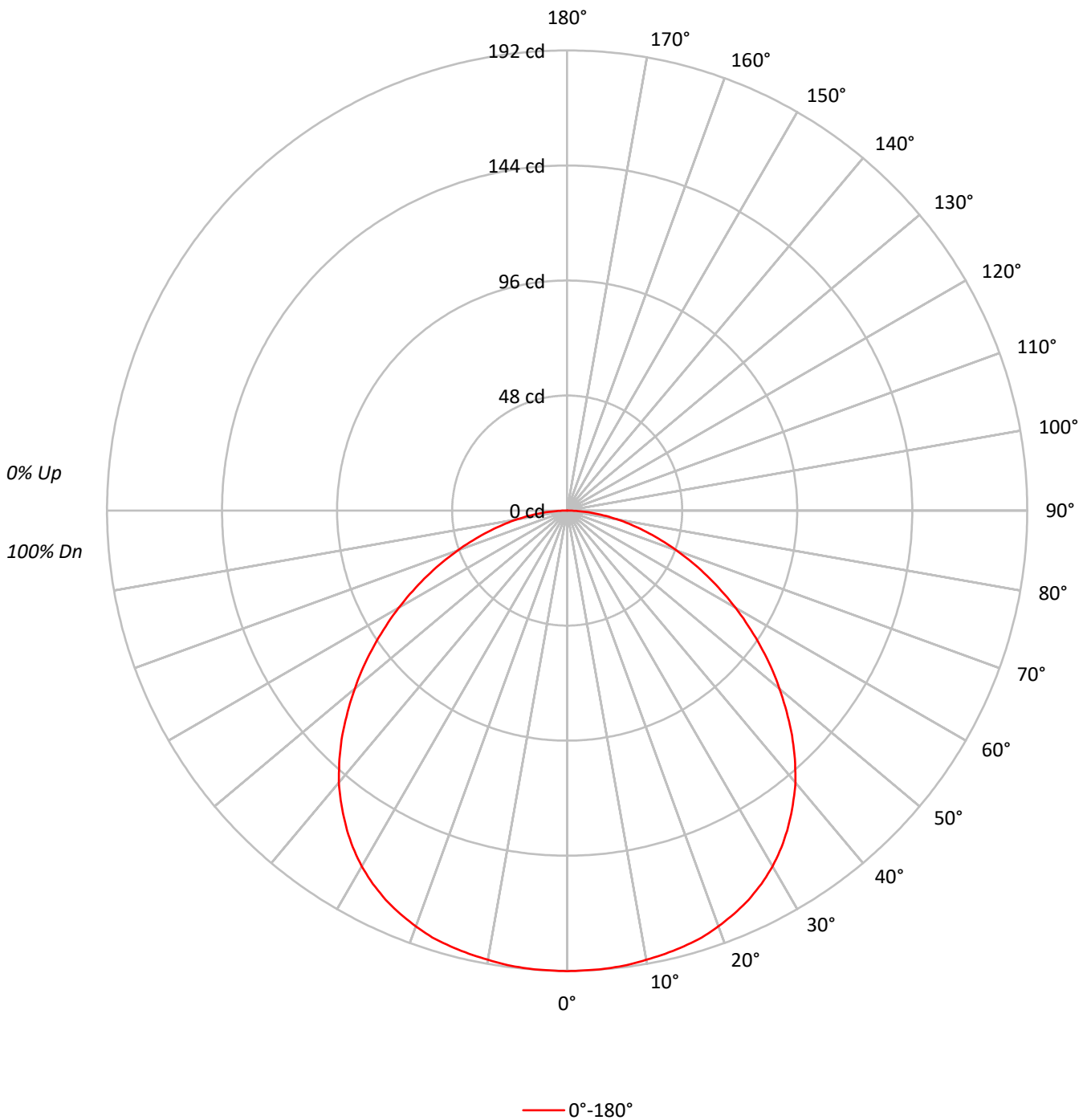
Lumens per Lamp: N/A  
Luminaire Lumens: 556.0 lumens  
Efficiency: N/A  
Efficacy: 61.8 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.31 / 1.4  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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°	42146
5°	42219
10°	42373
15°	42724
20°	43077
25°	43357
30°	43399
35°	43072
40°	42422
45°	41152
50°	39470
55°	37619
60°	35567
65°	33415
70°	31095
75°	28975
80°	26897
85°	24656



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	18.3	3.3
10°-20°	53.2	9.6
20°-30°	82.5	14.8
30°-40°	100.5	18.1
40°-50°	102.2	18.4
50°-60°	88.0	15.8
60°-70°	63.8	11.5
70°-80°	36.4	6.5
80°-90°	11.0	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°	154.0	27.7
0°-40°	254.5	45.8
0°-60°	444.7	80.0
0°-90°	555.9	100.0
90°-120°	0.1	0.0
90°-150°	0.1	0.0
90°-180°	0.0	0.0
0°-180°	556.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	192	
5°	192	18
15°	188	53
25°	179	83
35°	161	101
45°	133	102
55°	98	88
65°	64	64
75°	34	36
85°	10	10
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	0



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	192.2
2.5°	192.0
5°	191.8
7.5°	191.3
10°	190.3
12.5°	189.4
15°	188.2
17.5°	186.8
20°	184.6
22.5°	182.1
25°	179.2
27.5°	175.6
30°	171.4
32.5°	166.5
35°	160.9
37.5°	154.7
40°	148.2
42.5°	140.6
45°	132.7
47.5°	124.2
50°	115.7
52.5°	107.2
55°	98.4
57.5°	89.7
60°	81.1
62.5°	72.6
65°	64.4
67.5°	56.3
70°	48.5
72.5°	41.2
75°	34.2
77.5°	27.6
80°	21.3
82.5°	15.3
85°	9.8
87.5°	4.5
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)