

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: P295436

Luminaire Tested: **HLB305927EMW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P295436  
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: HLB305927EMW  
Description: 3 IN SQUARE HALO BLADE - 2700K  
Light Source: -  
Ballast/Driver: -

**Summary**

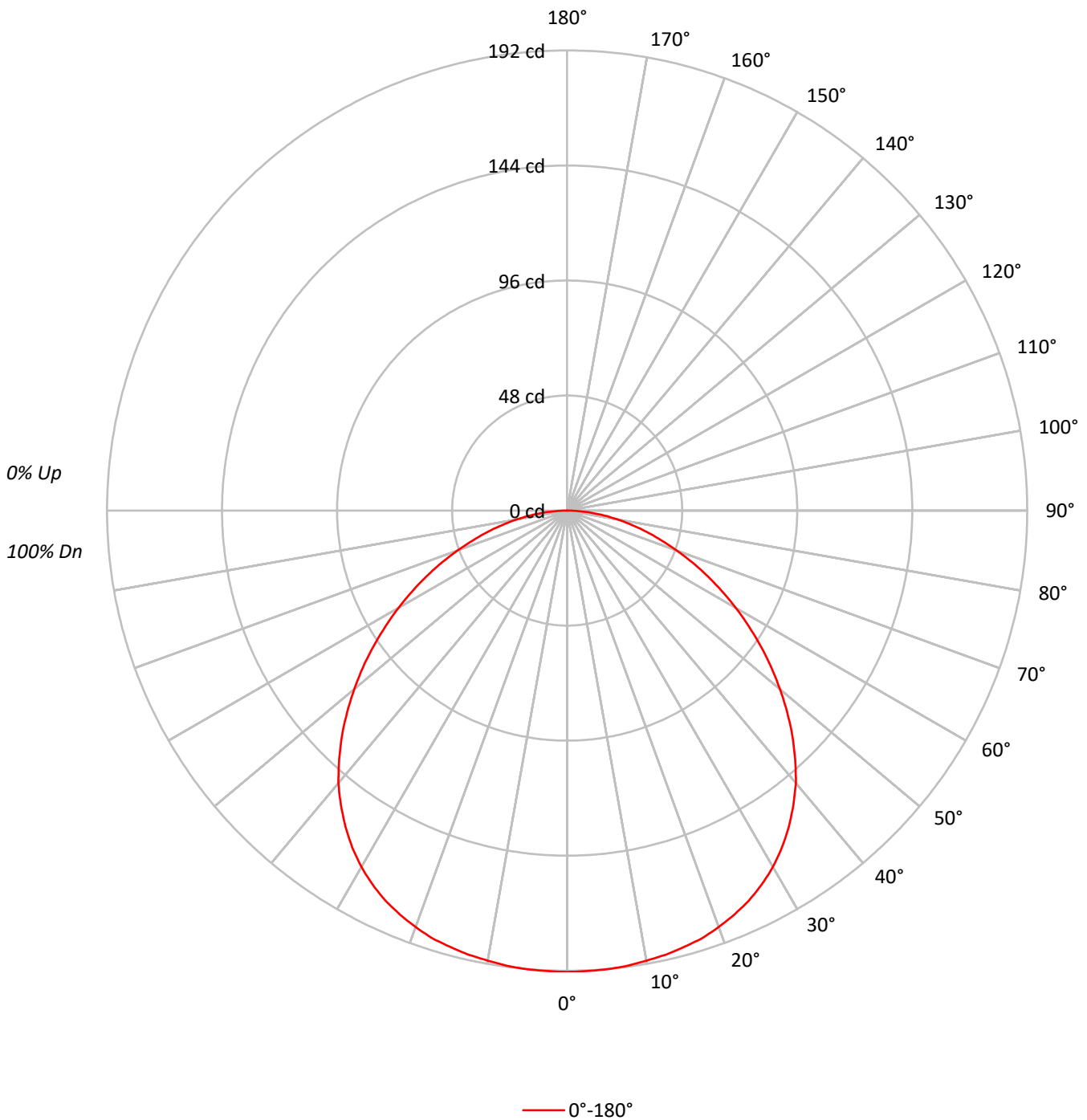
Lumens per Lamp: N/A  
Luminaire Lumens: 557.0 lumens  
Efficiency: N/A  
Efficacy: 61.9 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.31 / 1.4  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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°	42212
5°	42285
10°	42462
15°	42793
20°	43147
25°	43430
30°	43475
35°	43152
40°	42508
45°	41214
50°	39538
55°	37695
60°	35655
65°	33467
70°	31159
75°	29060
80°	26897
85°	24656



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	18.3	3.3
10°-20°	53.3	9.6
20°-30°	82.7	14.8
30°-40°	100.7	18.1
40°-50°	102.3	18.4
50°-60°	88.2	15.8
60°-70°	64.0	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°	154.3	27.7
0°-40°	255.0	45.8
0°-60°	445.5	80.0
0°-90°	556.9	100.0
90°-120°	0.1	0.0
90°-150°	0.1	0.0
90°-180°	0.0	0.0
0°-180°	557.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	192	
5°	192	18
15°	188	53
25°	180	83
35°	161	101
45°	133	102
55°	99	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	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	192.5
2.5°	192.3
5°	192.1
7.5°	191.6
10°	190.7
12.5°	189.8
15°	188.5
17.5°	187.1
20°	184.9
22.5°	182.4
25°	179.5
27.5°	175.9
30°	171.7
32.5°	166.8
35°	161.2
37.5°	155.0
40°	148.5
42.5°	140.8
45°	132.9
47.5°	124.5
50°	115.9
52.5°	107.4
55°	98.6
57.5°	89.9
60°	81.3
62.5°	72.8
65°	64.5
67.5°	56.4
70°	48.6
72.5°	41.2
75°	34.3
77.5°	27.6
80°	21.3
82.5°	15.4
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)