

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: P295439

Luminaire Tested: **HLB305940EMW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P295439
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: HLB305940EMW
Description: 3 IN SQUARE HALO BLADE - 4000K
Light Source: -
Ballast/Driver: -

Summary

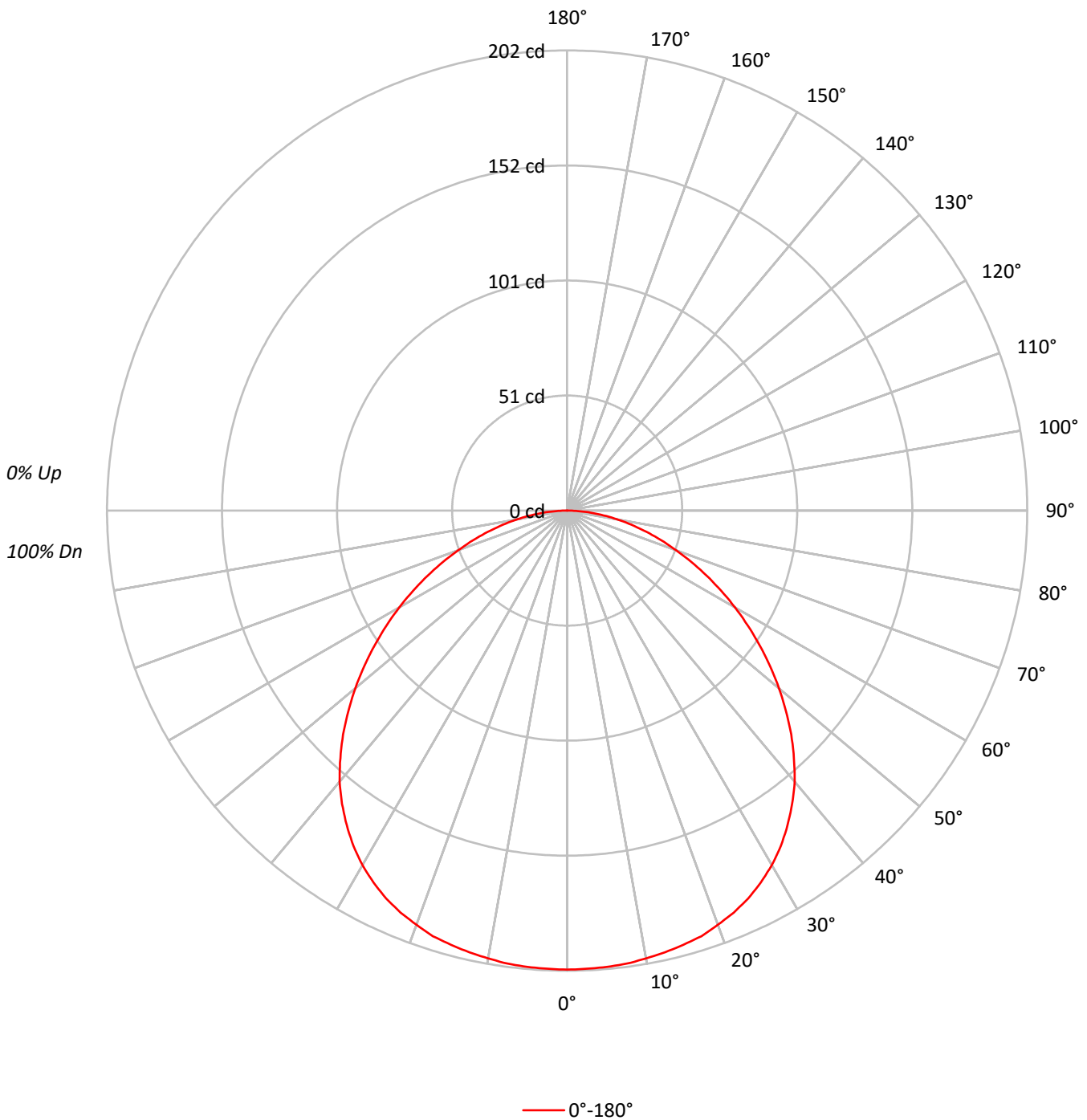
Lumens per Lamp: N/A
Luminaire Lumens: 583.0 lumens
Efficiency: N/A
Efficacy: 64.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.31 / 1.4
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	44185
5°	44266
10°	44444
15°	44790
20°	45154
25°	45462
30°	45501
35°	45160
40°	44483
45°	43136
50°	41414
55°	39454
60°	37322
65°	35023
70°	32570
75°	30416
80°	28160
85°	25914



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.2	3.3
10°-20°	55.8	9.6
20°-30°	86.6	14.8
30°-40°	105.4	18.1
40°-50°	107.1	18.4
50°-60°	92.3	15.8
60°-70°	66.9	11.5
70°-80°	38.1	6.5
80°-90°	11.5	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°	161.5	27.7
0°-40°	266.9	45.8
0°-60°	466.3	80.0
0°-90°	583.0	100.0
90°-120°	0.1	0.0
90°-150°	0.1	0.0
90°-180°	0.0	0.0
0°-180°	583.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	202	
5°	201	19
15°	197	56
25°	188	87
35°	169	105
45°	139	107
55°	103	92
65°	68	67
75°	36	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°	201.5
2.5°	201.3
5°	201.1
7.5°	200.6
10°	199.6
12.5°	198.6
15°	197.3
17.5°	195.9
20°	193.5
22.5°	191.0
25°	187.9
27.5°	184.1
30°	179.7
32.5°	174.6
35°	168.7
37.5°	162.3
40°	155.4
42.5°	147.4
45°	139.1
47.5°	130.3
50°	121.4
52.5°	112.4
55°	103.2
57.5°	94.1
60°	85.1
62.5°	76.2
65°	67.5
67.5°	59.0
70°	50.8
72.5°	43.2
75°	35.9
77.5°	28.9
80°	22.3
82.5°	16.1
85°	10.3
87.5°	4.7
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)