

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 COMMERCIAL

Report Number: P583610

Luminaire Tested: **HC807D010-HM80520840-81MDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583610
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC807D010-HM80520840-81MDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

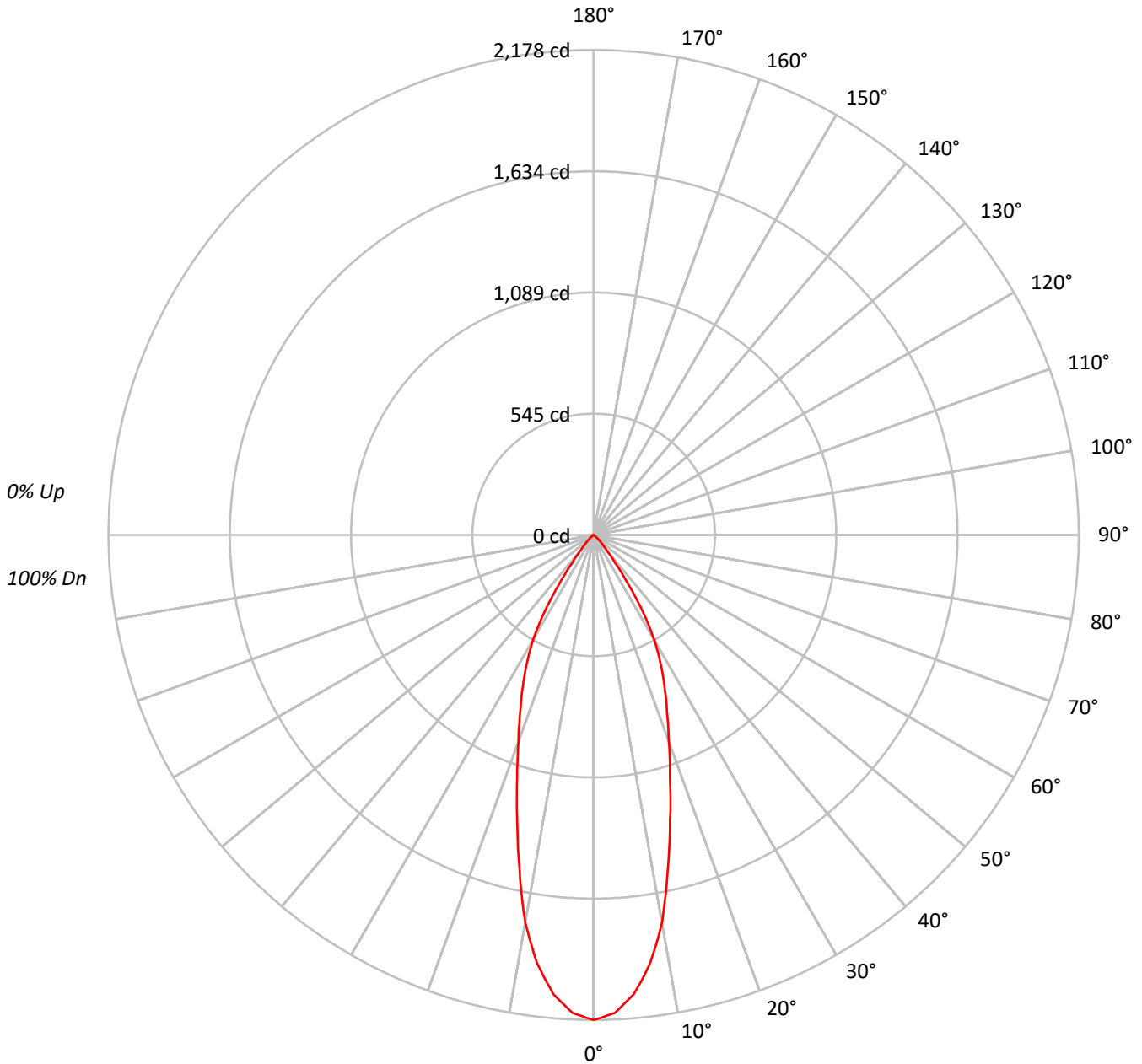
Lumens per Lamp: N/A
Luminaire Lumens: 1124.3 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.67
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 8
Input Voltage (V): NR
Input Current (A_{in}): 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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	114	111	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	95			95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89			89
3	104	98	94	90	102	97	93	90	94	91	88	92	89	87	90	87	85	84			84
4	100	93	88	84	98	92	87	83	90	86	82	88	84	82	86	83	81	79			79
5	95	88	82	78	94	87	82	78	85	81	77	83	80	77	82	79	76	75			75
6	91	83	78	74	90	82	77	74	81	76	73	79	76	73	78	75	72	71			71
7	87	79	73	70	86	78	73	69	77	72	69	76	72	69	75	71	68	67			67
8	84	75	70	66	82	74	69	66	73	69	65	72	68	65	71	68	65	64			64
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	65	62	61			61
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	66	62	59	58			58

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	67177
5°	64097
10°	55338
15°	42315
20°	32376
25°	25613
30°	19349
35°	10292
40°	3921
45°	1880
50°	801
55°	333
60°	123
65°	102
70°	63
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.0	16.7
10°-20°	370.0	32.9
20°-30°	344.6	30.7
30°-40°	177.8	15.8
40°-50°	36.2	3.2
50°-60°	6.2	0.5
60°-70°	1.2	0.1
70°-80°	0.3	0.0
80°-90°	0.0	0.0
90°-100°	0.0	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°	902.6	80.3
0°-40°	1080.4	96.1
0°-60°	1122.8	99.9
0°-90°	1124.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1124.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2178	
5°	2071	188
15°	1326	370
25°	753	345
35°	273	178
45°	43	36
55°	6	6
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2178.5
2.5°	2149.3
5°	2070.7
7.5°	1941.3
10°	1767.3
12.5°	1539.0
15°	1325.5
17.5°	1140.4
20°	986.6
22.5°	861.4
25°	752.8
27.5°	649.8
30°	543.4
32.5°	416.8
35°	273.4
37.5°	158.7
40°	97.4
42.5°	64.1
45°	43.1
47.5°	27.1
50°	16.7
52.5°	9.8
55°	6.2
57.5°	2.7
60°	2.0
62.5°	1.4
65°	1.4
67.5°	0.7
70°	0.7
72.5°	0.7
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)