

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: P583561

Luminaire Tested: **HC807D010-HM80520827-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583561
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC807D010-HM80520827-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 926.9 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

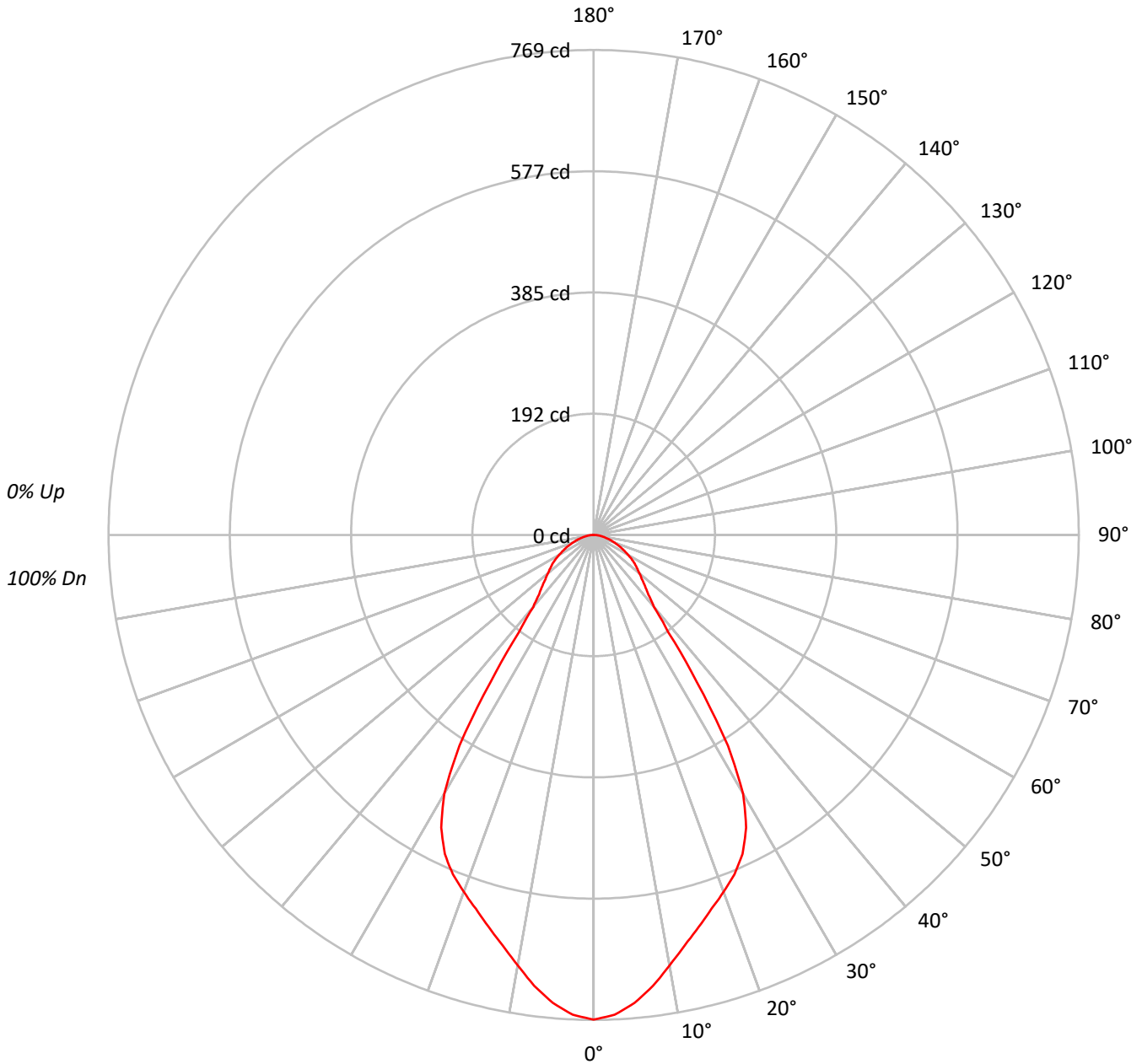
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			65
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59			59
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54			54
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50			50
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			46
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			43
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40			40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	23701
5°	23055
10°	21696
15°	20540
20°	19761
25°	18996
30°	16870
35°	10744
40°	5998
45°	5024
50°	4533
55°	4274
60°	3898
65°	3517
70°	3101
75°	2764
80°	2433
85°	2194



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	7.5
10°-20°	181.5	19.6
20°-30°	253.2	27.3
30°-40°	182.2	19.7
40°-50°	90.3	9.7
50°-60°	70.6	7.6
60°-70°	47.8	5.2
70°-80°	24.8	2.7
80°-90°	7.1	0.8
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°	504.1	54.4
0°-40°	686.2	74.0
0°-60°	847.1	91.4
0°-90°	926.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	926.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	769	
5°	745	69
15°	643	181
25°	558	253
35°	285	182
45°	115	90
55°	80	71
65°	48	48
75°	23	25
85°	6	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	768.6
2.5°	761.7
5°	744.8
7.5°	721.1
10°	692.9
12.5°	666.6
15°	643.4
17.5°	621.5
20°	602.2
22.5°	582.7
25°	558.3
27.5°	523.3
30°	473.8
32.5°	396.1
35°	285.4
37.5°	194.7
40°	149.0
42.5°	128.3
45°	115.2
47.5°	103.8
50°	94.5
52.5°	86.4
55°	79.5
57.5°	71.3
60°	63.2
62.5°	55.1
65°	48.2
67.5°	41.3
70°	34.4
72.5°	28.8
75°	23.2
77.5°	18.2
80°	13.7
82.5°	10.0
85°	6.2
87.5°	3.1
90°	0.0



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— 0°-180°







(END OF REPORT)