

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: P583629

Luminaire Tested: **HC807D010-HM80520927-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583629
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-HM80520927-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 752.6 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

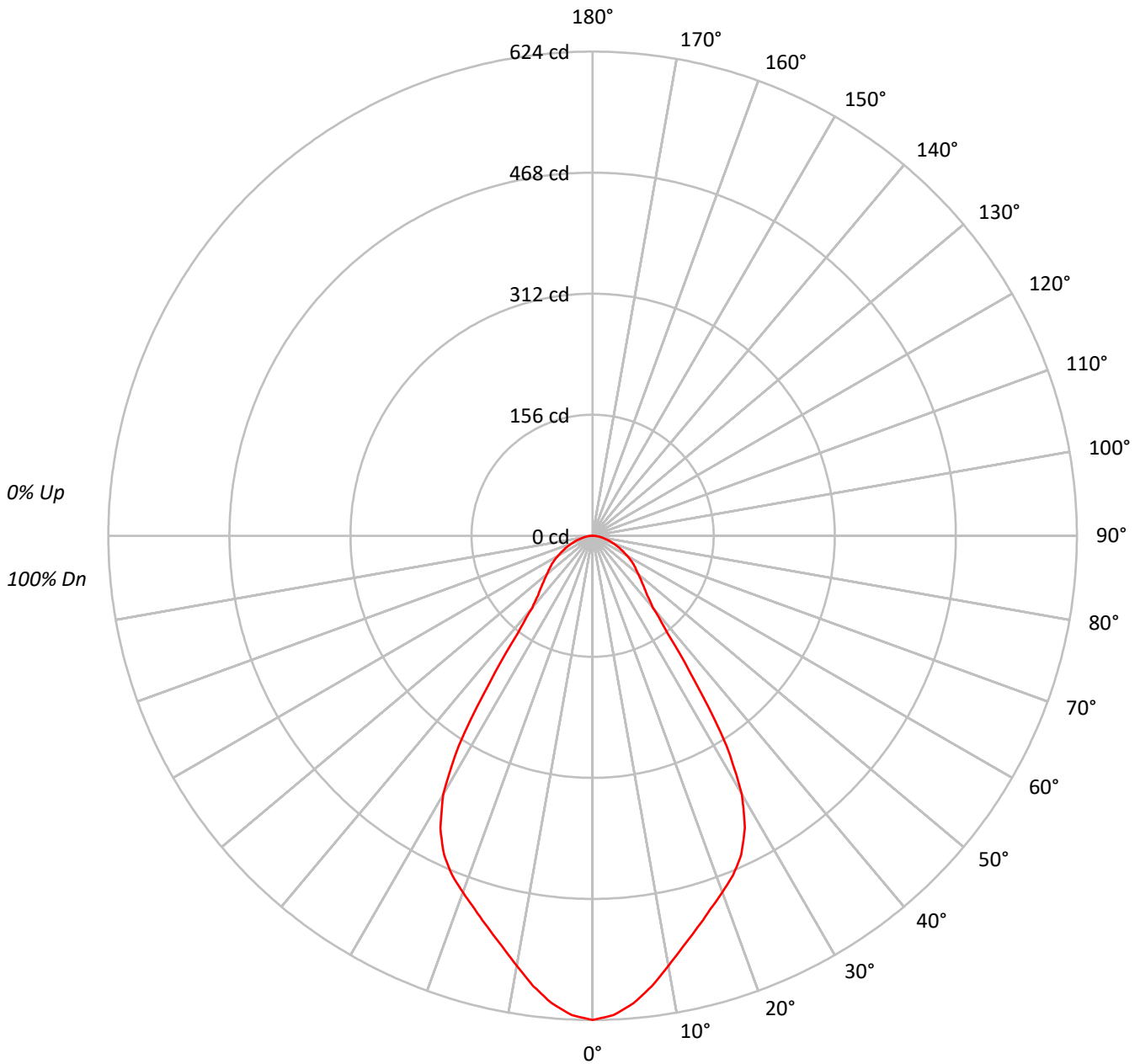
Input Watts (W): 8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: HC807D010-HM80520927-81MDW

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°	19242
5°	18721
10°	17616
15°	16680
20°	16043
25°	15423
30°	13698
35°	8722
40°	4867
45°	4073
50°	3680
55°	3468
60°	3170
65°	2853
70°	2524
75°	2240
80°	1989
85°	1804



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.4	7.5
10°-20°	147.3	19.6
20°-30°	205.5	27.3
30°-40°	147.9	19.7
40°-50°	73.3	9.7
50°-60°	57.4	7.6
60°-70°	38.8	5.2
70°-80°	20.2	2.7
80°-90°	5.8	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°	409.2	54.4
0°-40°	557.1	74.0
0°-60°	687.8	91.4
0°-90°	752.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	752.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	624	
5°	605	56
15°	522	147
25°	453	206
35°	232	148
45°	93	73
55°	64	57
65°	39	39
75°	19	20
85°	5	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	624.0
2.5°	618.4
5°	604.8
7.5°	585.4
10°	562.6
12.5°	541.2
15°	522.5
17.5°	504.6
20°	488.9
22.5°	473.1
25°	453.3
27.5°	424.8
30°	384.7
32.5°	321.7
35°	231.7
37.5°	158.1
40°	120.9
42.5°	104.2
45°	93.4
47.5°	84.4
50°	76.7
52.5°	70.1
55°	64.5
57.5°	58.0
60°	51.4
62.5°	44.7
65°	39.1
67.5°	33.6
70°	28.0
72.5°	23.4
75°	18.8
77.5°	14.7
80°	11.2
82.5°	8.1
85°	5.1
87.5°	2.5
90°	0.0



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— 0°-180°







(END OF REPORT)