

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: P583588

Luminaire Tested: **HC807D010-HM80520830-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P583588
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC807D010-HM80520830-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 956.1 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

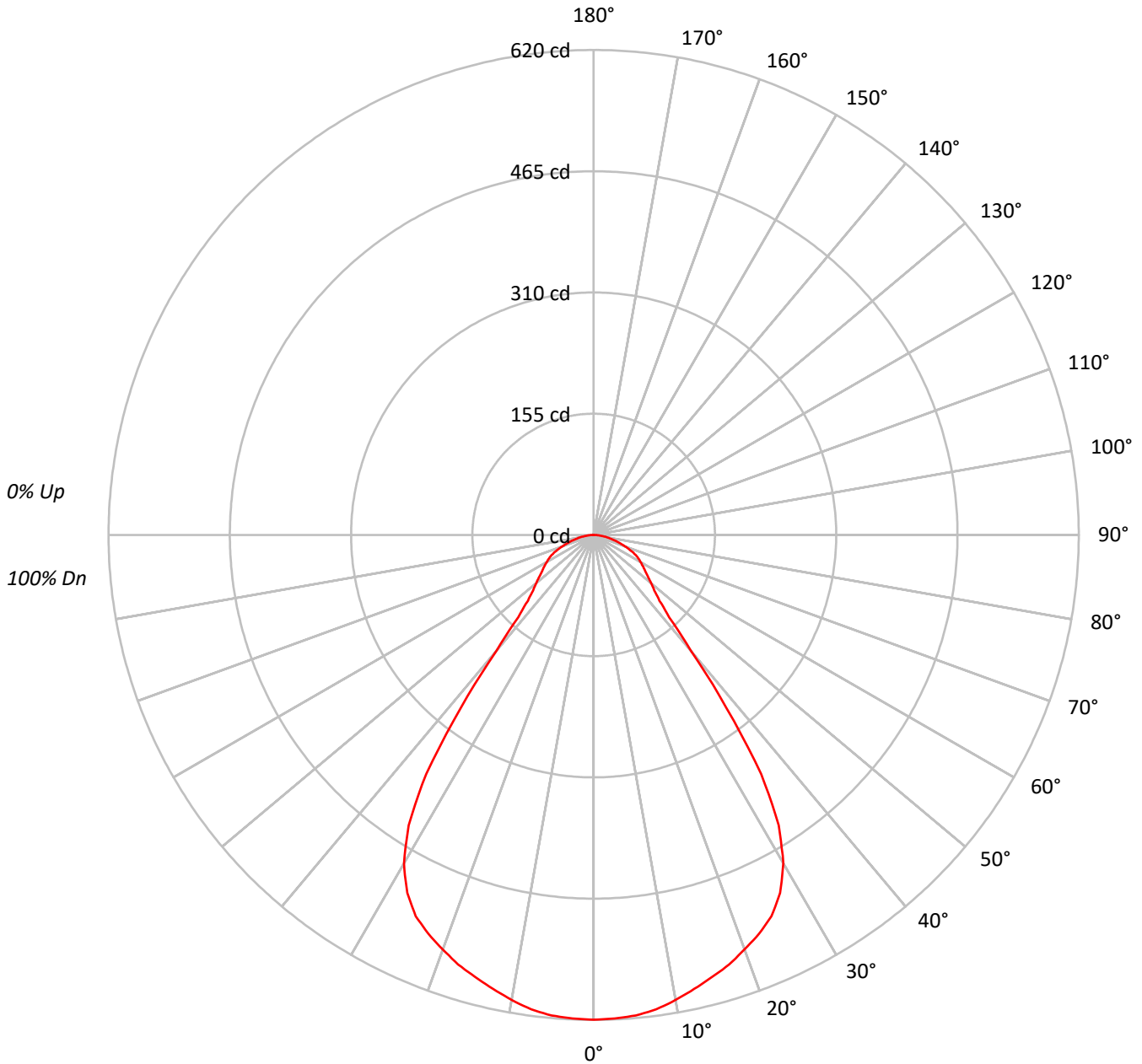
Input Watts (W): 8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	19112
5°	19089
10°	18903
15°	18679
20°	18505
25°	18298
30°	17262
35°	14056
40°	7769
45°	5185
50°	4596
55°	4317
60°	4262
65°	4217
70°	3814
75°	3419
80°	2983
85°	2618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.5	6.1
10°-20°	165.2	17.3
20°-30°	245.5	25.7
30°-40°	221.0	23.1
40°-50°	98.0	10.3
50°-60°	72.6	7.6
60°-70°	56.4	5.9
70°-80°	30.6	3.2
80°-90°	8.4	0.9
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°	469.1	49.1
0°-40°	690.2	72.2
0°-60°	860.8	90.0
0°-90°	956.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	956.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	620	
5°	617	58
15°	585	165
25°	538	245
35°	373	221
45°	119	98
55°	80	73
65°	58	56
75°	29	31
85°	7	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	619.8
2.5°	618.7
5°	616.7
7.5°	611.8
10°	603.7
12.5°	594.4
15°	585.1
17.5°	575.8
20°	563.9
22.5°	552.1
25°	537.8
27.5°	516.0
30°	484.8
32.5°	440.0
35°	373.4
37.5°	278.8
40°	193.0
42.5°	142.6
45°	118.9
47.5°	105.2
50°	95.8
52.5°	87.1
55°	80.3
57.5°	74.7
60°	69.1
62.5°	64.1
65°	57.8
67.5°	50.4
70°	42.3
72.5°	35.5
75°	28.7
77.5°	22.3
80°	16.8
82.5°	11.8
85°	7.4
87.5°	3.1
90°	0.0



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— 0°-180°







(END OF REPORT)