

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: P581480

Luminaire Tested: **HC407D010-HM40525927-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581480
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC407D010-HM40525927-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 729.1 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

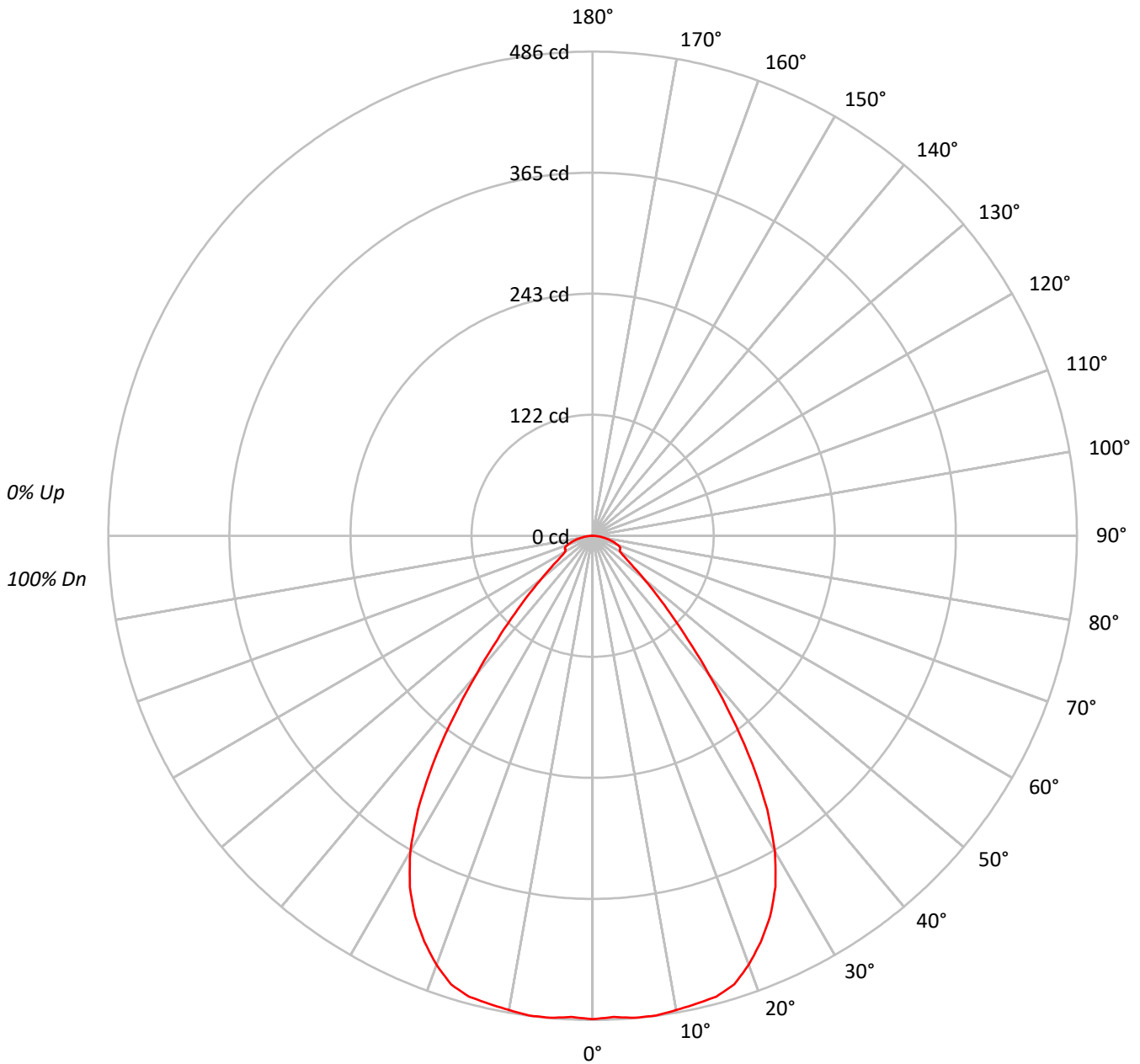
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59			59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54			54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49			49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46			46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	59847
5°	60138
10°	60545
15°	61154
20°	60144
25°	57365
30°	52128
35°	42041
40°	29176
45°	19153
50°	12838
55°	9118
60°	7795
65°	8960
70°	9593
75°	9293
80°	8311
85°	7784



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.3	6.3
10°-20°	134.5	18.5
20°-30°	192.2	26.4
30°-40°	171.7	23.6
40°-50°	88.1	12.1
50°-60°	40.0	5.5
60°-70°	29.8	4.1
70°-80°	20.3	2.8
80°-90°	6.0	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°	373.1	51.2
0°-40°	544.8	74.7
0°-60°	672.9	92.3
0°-90°	729.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	729.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	485	
5°	486	46
15°	479	135
25°	422	192
35°	279	172
45°	110	88
55°	42	40
65°	31	30
75°	20	20
85°	6	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	485.2
2.5°	483.4
5°	485.7
7.5°	485.7
10°	483.4
12.5°	481.1
15°	478.9
17.5°	472.2
20°	458.2
22.5°	441.0
25°	421.5
27.5°	397.2
30°	366.0
32.5°	326.2
35°	279.2
37.5°	229.1
40°	181.2
42.5°	141.5
45°	109.8
47.5°	85.8
50°	66.9
52.5°	52.5
55°	42.4
57.5°	35.7
60°	31.6
62.5°	30.7
65°	30.7
67.5°	29.8
70°	26.6
72.5°	23.0
75°	19.5
77.5°	15.4
80°	11.7
82.5°	8.5
85°	5.5
87.5°	2.3
90°	0.0



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— 0°-180°







(END OF REPORT)