

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: P580856

Luminaire Tested: **HC450D010-HM44560830-41NDC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580856
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC450D010-HM44560830-41NDC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4628.8 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

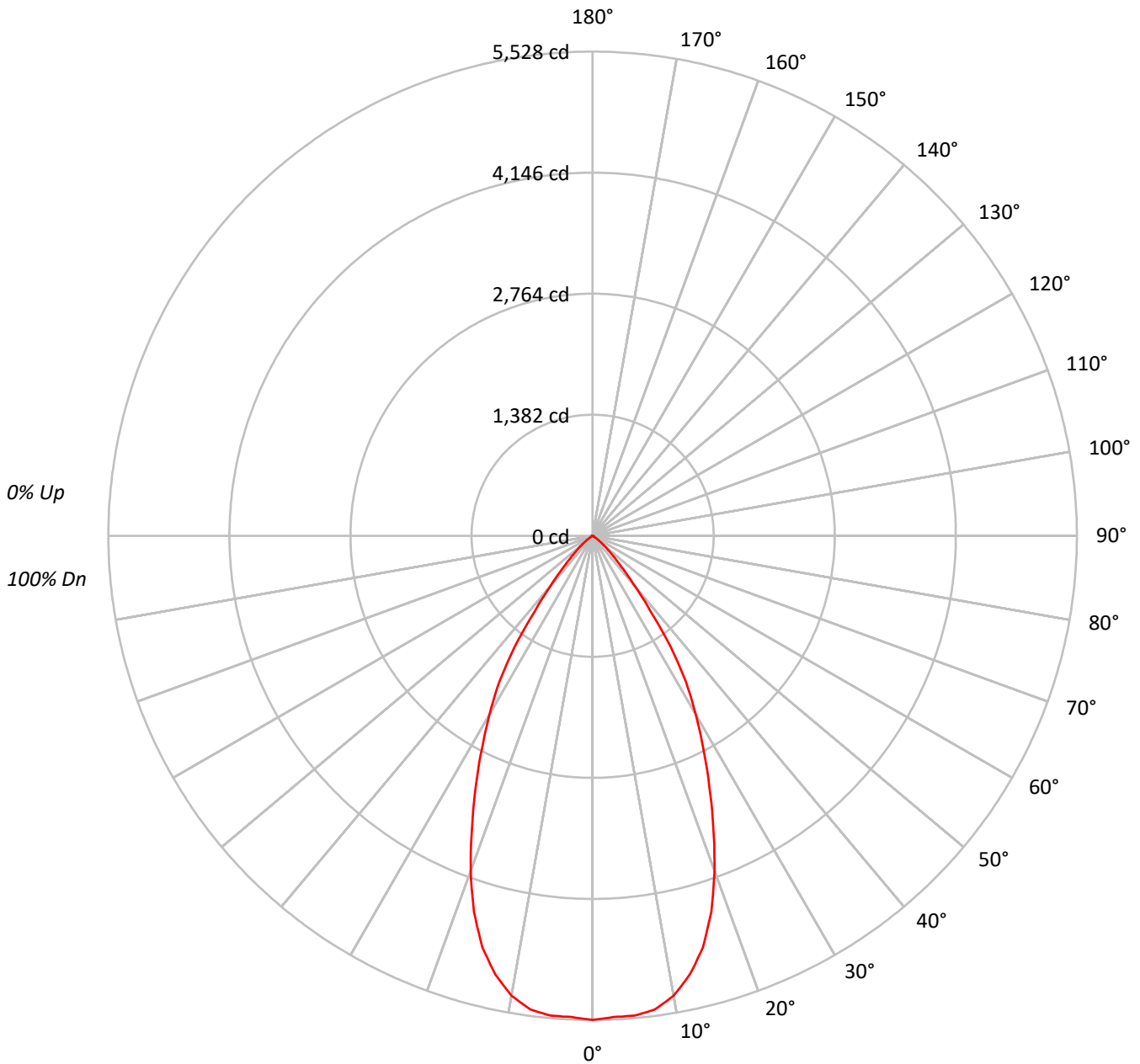
Input Watts (W): 48
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100
1	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94	94	94	94
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	93	91	89	87	87	87	87
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81	81	81	81
4	97	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76	76	76	76
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71	71	71	71
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66	66	66	66
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62	62	62	62
8	80	70	64	60	78	70	64	60	69	64	60	68	63	60	67	62	59	58	58	58	58
9	76	66	61	57	75	66	60	57	65	60	56	64	59	56	63	59	56	55	55	55	55
10	72	63	57	53	71	62	57	53	62	57	53	61	56	53	60	56	53	51	51	51	51

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	681793
5°	680918
10°	667637
15°	620811
20°	533907
25°	428896
30°	334846
35°	234449
40°	120311
45°	61070
50°	30588
55°	11419
60°	4613
65°	3648
70°	2236
75°	1477
80°	2202
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	519.9	11.2
10°-20°	1342.0	29.0
20°-30°	1445.7	31.2
30°-40°	949.8	20.5
40°-50°	295.3	6.4
50°-60°	58.0	1.3
60°-70°	12.3	0.3
70°-80°	4.5	0.1
80°-90°	1.3	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°	3307.6	71.5
0°-40°	4257.5	92.0
0°-60°	4610.8	99.6
0°-90°	4628.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4628.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5528	
5°	5499	520
15°	4862	1342
25°	3151	1446
35°	1557	950
45°	350	295
55°	53	58
65°	12	12
75°	3	4
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5527.5
2.5°	5499.4
5°	5499.4
7.5°	5455.6
10°	5330.5
12.5°	5130.5
15°	4861.6
17.5°	4502.1
20°	4067.5
22.5°	3598.5
25°	3151.4
27.5°	2735.6
30°	2351.0
32.5°	1988.4
35°	1557.0
37.5°	1084.9
40°	747.2
42.5°	515.9
45°	350.1
47.5°	237.6
50°	159.4
52.5°	100.1
55°	53.1
57.5°	21.9
60°	18.7
62.5°	15.6
65°	12.5
67.5°	9.4
70°	6.2
72.5°	6.2
75°	3.1
77.5°	3.1
80°	3.1
82.5°	3.1
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)