

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: P580910

Luminaire Tested: **HC450D010-HM44560927-41NDC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580910
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-HM44560927-41NDC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3612.7 lumens
Efficiency: N/A
Efficacy: 75.3 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

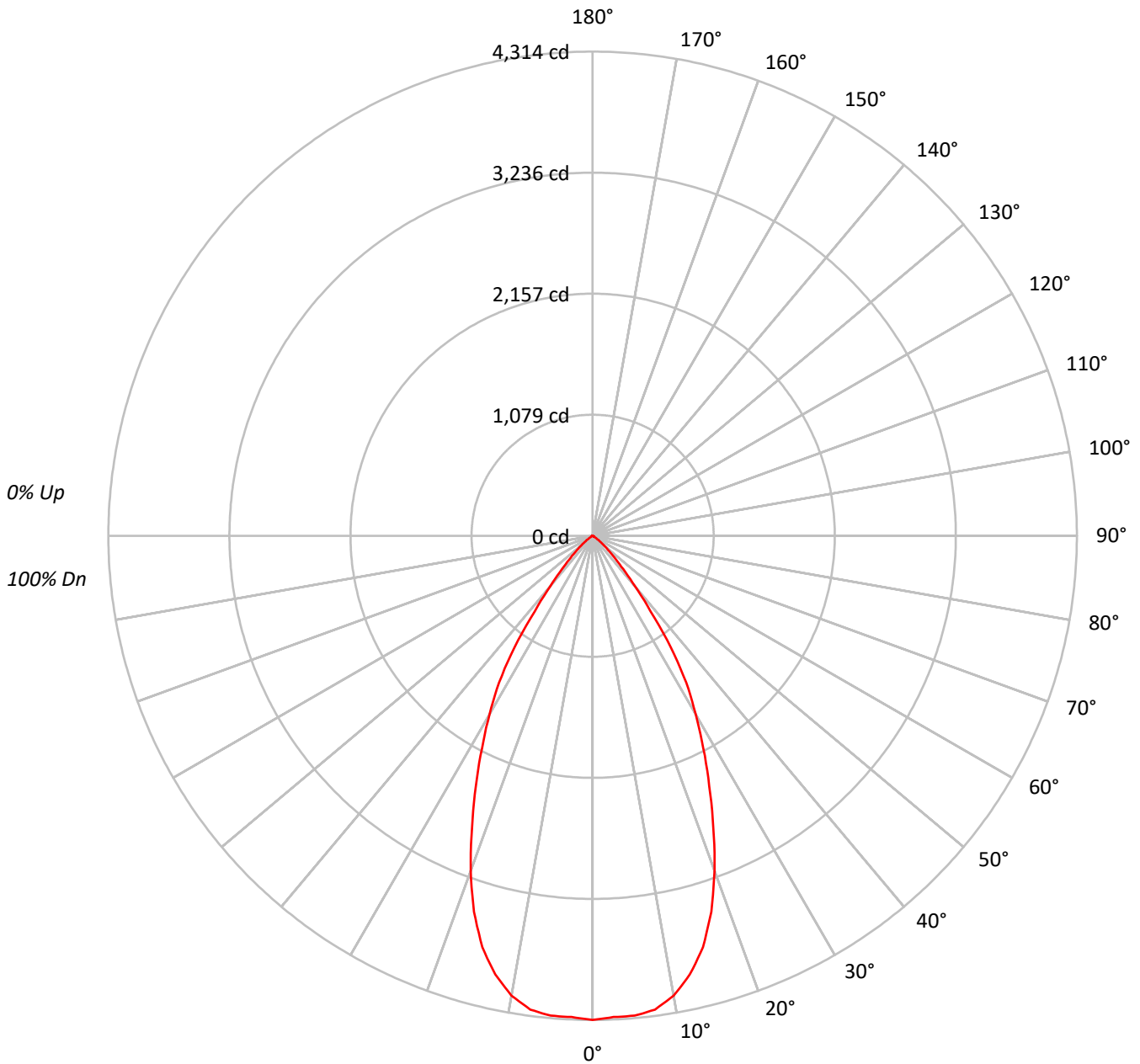
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	532125
5°	531434
10°	521071
15°	484533
20°	416690
25°	334744
30°	261354
35°	182981
40°	93905
45°	47674
50°	23871
55°	8924
60°	3602
65°	2831
70°	1767
75°	1144
80°	1705
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.8	11.2
10°-20°	1047.4	29.0
20°-30°	1128.3	31.2
30°-40°	741.3	20.5
40°-50°	230.5	6.4
50°-60°	45.2	1.3
60°-70°	9.6	0.3
70°-80°	3.5	0.1
80°-90°	1.0	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°	2581.5	71.5
0°-40°	3322.8	92.0
0°-60°	3598.6	99.6
0°-90°	3612.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3612.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4314	
5°	4292	406
15°	3794	1047
25°	2460	1128
35°	1215	741
45°	273	230
55°	42	45
65°	10	10
75°	2	4
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4314.1
2.5°	4292.1
5°	4292.1
7.5°	4258.0
10°	4160.3
12.5°	4004.1
15°	3794.4
17.5°	3513.7
20°	3174.5
22.5°	2808.6
25°	2459.6
27.5°	2135.1
30°	1835.0
32.5°	1551.9
35°	1215.2
37.5°	846.7
40°	583.2
42.5°	402.6
45°	273.3
47.5°	185.4
50°	124.4
52.5°	78.0
55°	41.5
57.5°	17.0
60°	14.6
62.5°	12.2
65°	9.7
67.5°	7.3
70°	4.9
72.5°	4.9
75°	2.4
77.5°	2.4
80°	2.4
82.5°	2.4
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)