

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: P592861

Luminaire Tested: **HC445D010-HM44560950-41NDC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592861
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: HC445D010-HM44560950-41NDC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3836.4 lumens
Efficiency: N/A
Efficacy: 87.2 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

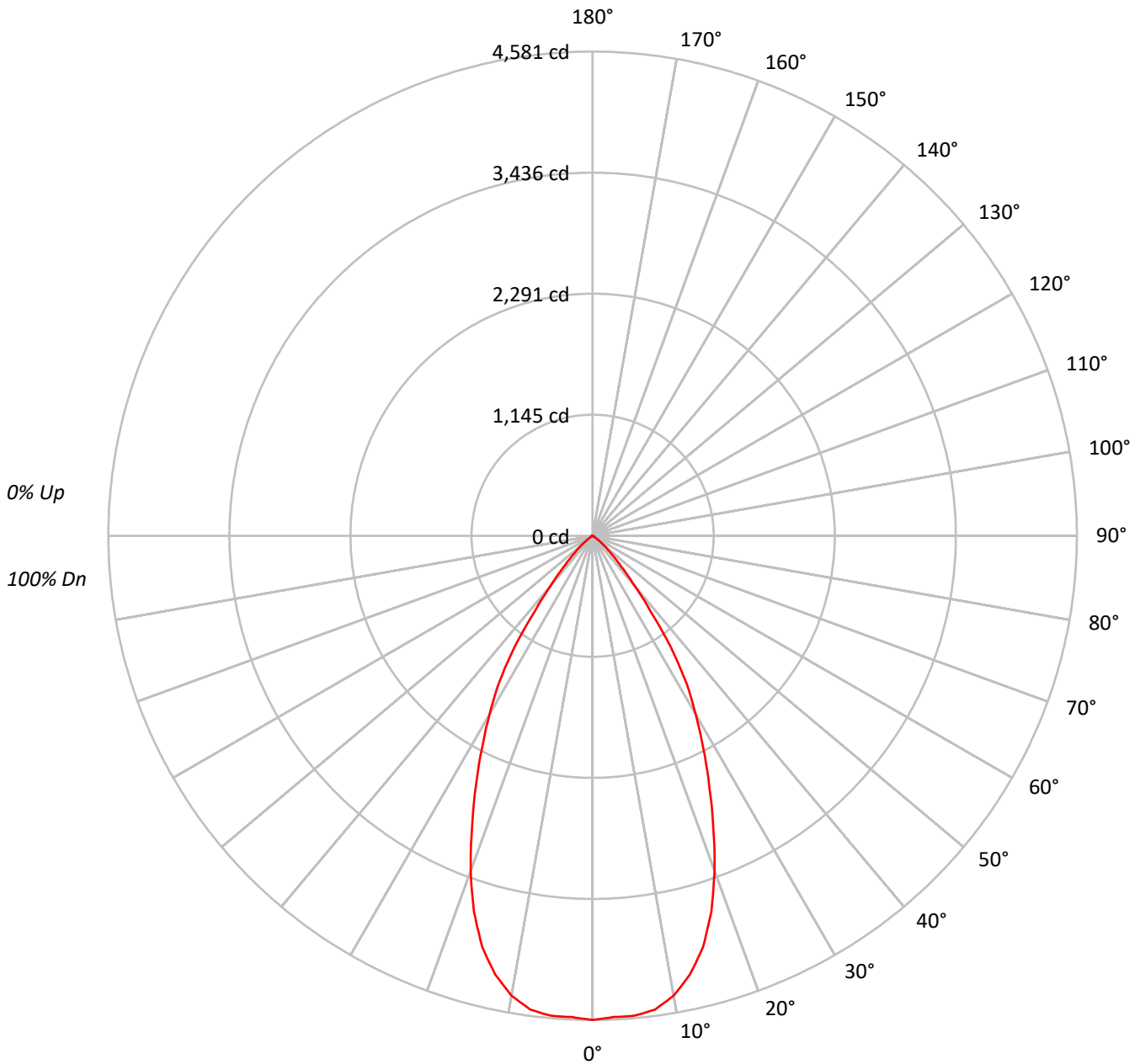
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	565059
5°	564332
10°	553335
15°	514516
20°	442483
25°	355471
30°	277534
35°	194305
40°	99701
45°	50639
50°	25368
55°	9484
60°	3848
65°	3006
70°	1875
75°	1239
80°	1847
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.9	11.2
10°-20°	1112.2	29.0
20°-30°	1198.2	31.2
30°-40°	787.2	20.5
40°-50°	244.8	6.4
50°-60°	48.1	1.3
60°-70°	10.2	0.3
70°-80°	3.8	0.1
80°-90°	1.1	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°	2741.3	71.5
0°-40°	3528.5	92.0
0°-60°	3821.4	99.6
0°-90°	3836.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3836.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4581	
5°	4558	431
15°	4029	1112
25°	2612	1198
35°	1290	787
45°	290	245
55°	44	48
65°	10	10
75°	3	4
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4581.1
2.5°	4557.8
5°	4557.8
7.5°	4521.5
10°	4417.9
12.5°	4252.0
15°	4029.2
17.5°	3731.2
20°	3371.0
22.5°	2982.4
25°	2611.9
27.5°	2267.2
30°	1948.6
32.5°	1648.0
35°	1290.4
37.5°	899.2
40°	619.2
42.5°	427.6
45°	290.3
47.5°	196.9
50°	132.2
52.5°	82.9
55°	44.1
57.5°	18.2
60°	15.6
62.5°	12.9
65°	10.3
67.5°	7.7
70°	5.2
72.5°	5.2
75°	2.6
77.5°	2.6
80°	2.6
82.5°	2.6
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)