

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: P580769

Luminaire Tested: **HC445D010-HM44560927-41NDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580769
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC445D010-HM44560927-41NDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3179.4 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

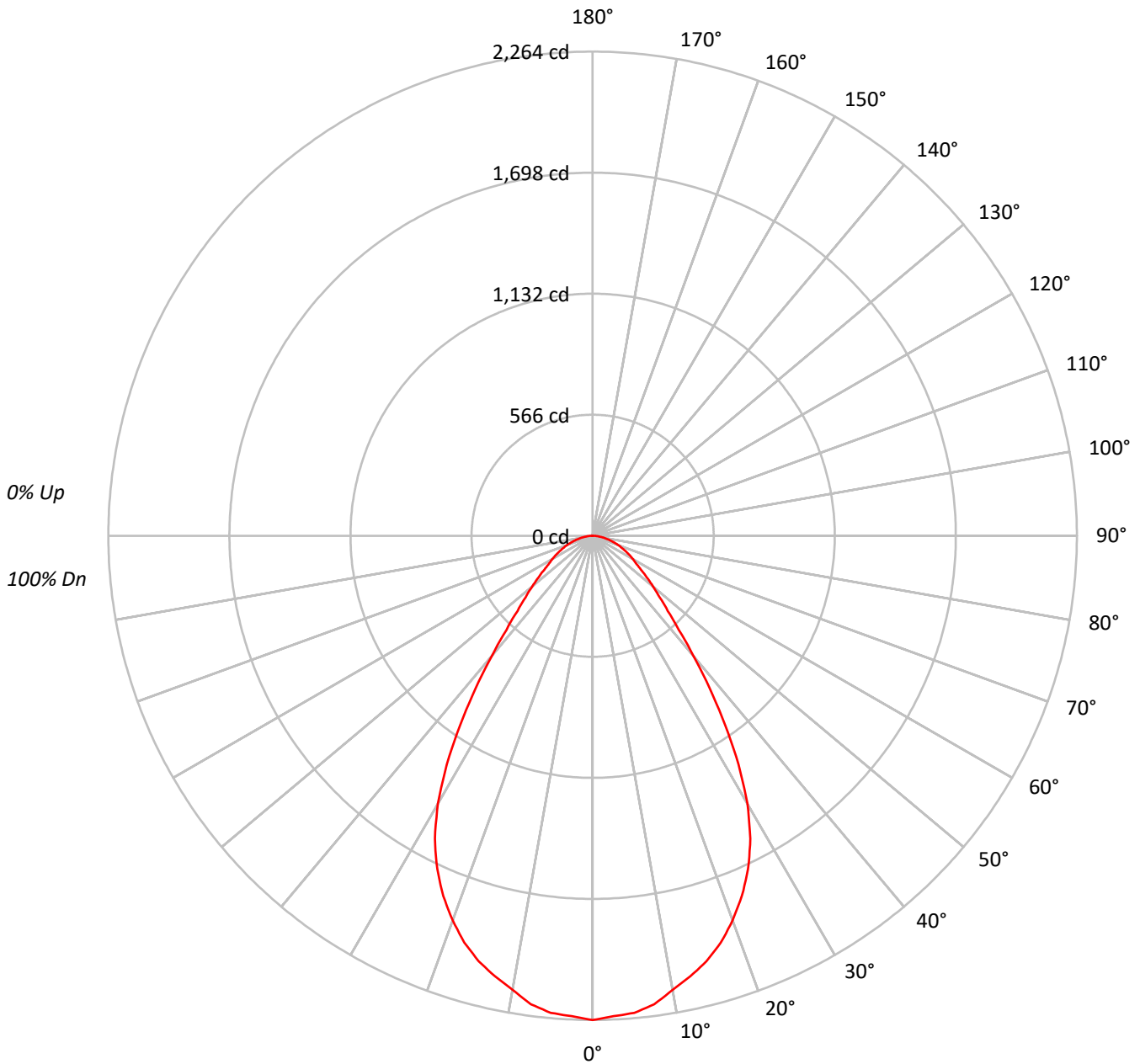
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			100
1	111	108	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89			89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			79
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71			71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64			64
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58			58
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52			52
7	75	63	56	51	73	62	56	51	61	55	50	60	54	50	59	53	50	48			48
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44			44
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41			41
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	279316
5°	277251
10°	270023
15°	262915
20°	251143
25°	233978
30°	206035
35°	162488
40°	117961
45°	86660
50°	70520
55°	59138
60°	53581
65°	49208
70°	45837
75°	41891
80°	37789
85°	32692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.1	6.6
10°-20°	577.5	18.2
20°-30°	782.8	24.6
30°-40°	671.8	21.1
40°-50°	396.7	12.5
50°-60°	251.4	7.9
60°-70°	168.9	5.3
70°-80°	93.2	2.9
80°-90°	26.1	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°	1571.5	49.4
0°-40°	2243.2	70.6
0°-60°	2891.2	90.9
0°-90°	3179.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3179.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2264	
5°	2239	211
15°	2059	577
25°	1719	783
35°	1079	672
45°	497	397
55°	275	251
65°	169	169
75°	88	93
85°	23	26
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2264.5
2.5°	2248.4
5°	2239.2
7.5°	2209.1
10°	2155.9
12.5°	2109.8
15°	2058.9
17.5°	1994.2
20°	1913.3
22.5°	1823.3
25°	1719.2
27.5°	1596.7
30°	1446.6
32.5°	1268.6
35°	1079.1
37.5°	896.6
40°	732.6
42.5°	596.2
45°	496.8
47.5°	425.2
50°	367.5
52.5°	318.9
55°	275.0
57.5°	240.3
60°	217.2
62.5°	194.1
65°	168.6
67.5°	147.9
70°	127.1
72.5°	106.3
75°	87.9
77.5°	69.3
80°	53.2
82.5°	37.0
85°	23.1
87.5°	9.2
90°	0.0



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— 0°-180°







(END OF REPORT)