

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: P580697

Luminaire Tested: **HC445D010-HM44560827-41NDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580697
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-HM44560827-41NDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3668.7 lumens
Efficiency: N/A
Efficacy: 83.4 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

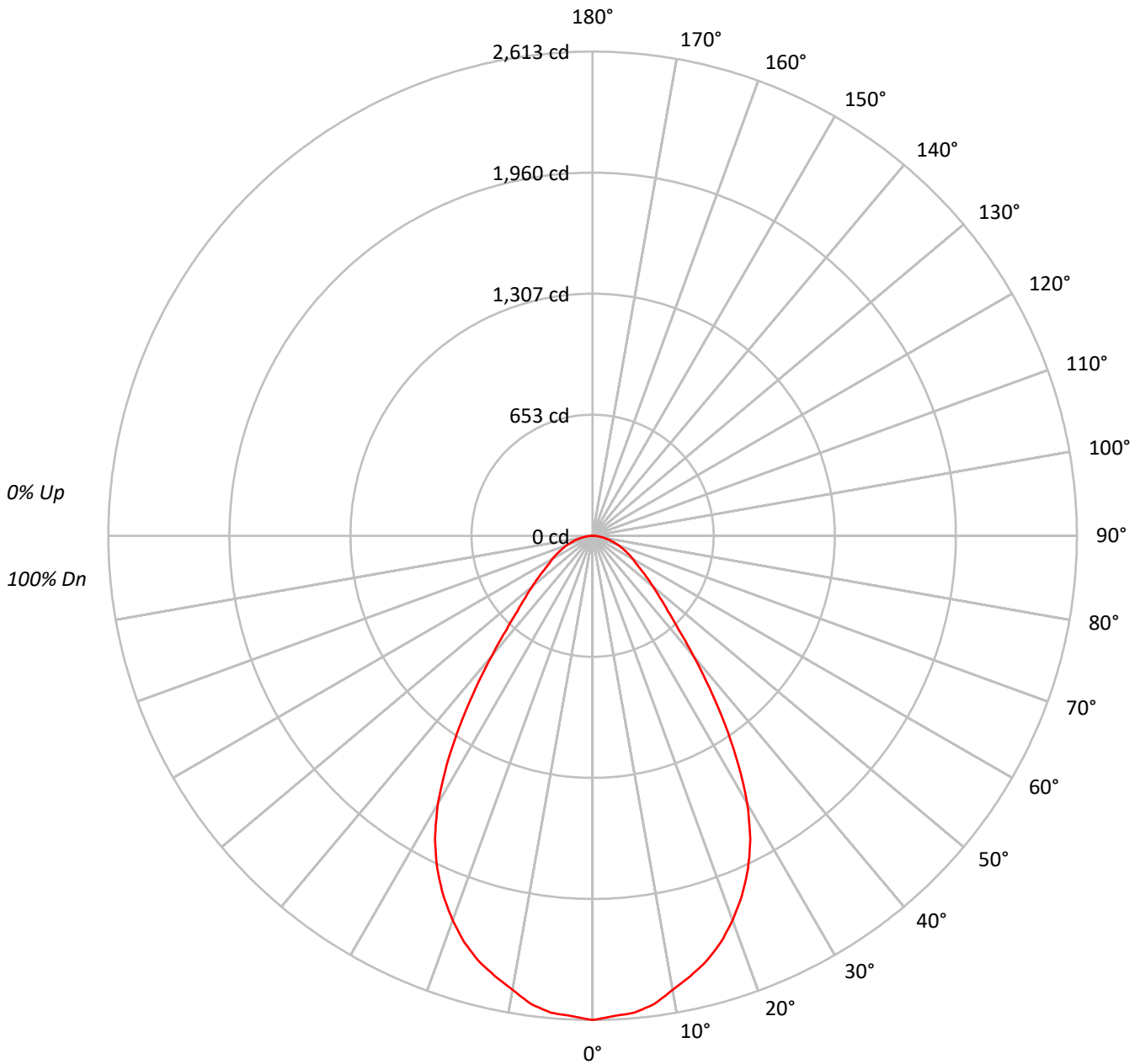
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52
7	75	63	56	51	73	62	56	51	61	55	50	60	54	50	59	53	50	48
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	322302
5°	319905
10°	311581
15°	303369
20°	289800
25°	269989
30°	237740
35°	187499
40°	136091
45°	99987
50°	81362
55°	68234
60°	61845
65°	56825
70°	52870
75°	48277
80°	43614
85°	37787



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.6	6.6
10°-20°	666.4	18.2
20°-30°	903.3	24.6
30°-40°	775.1	21.1
40°-50°	457.7	12.5
50°-60°	290.0	7.9
60°-70°	194.9	5.3
70°-80°	107.6	2.9
80°-90°	30.1	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°	1813.3	49.4
0°-40°	2588.4	70.6
0°-60°	3336.1	90.9
0°-90°	3668.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3668.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2613	
5°	2584	244
15°	2376	666
25°	1984	903
35°	1245	775
45°	573	458
55°	317	290
65°	195	195
75°	101	108
85°	27	30
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2613.0
2.5°	2594.4
5°	2583.7
7.5°	2549.1
10°	2487.7
12.5°	2434.4
15°	2375.7
17.5°	2301.1
20°	2207.8
22.5°	2103.8
25°	1983.8
27.5°	1842.4
30°	1669.2
32.5°	1463.9
35°	1245.2
37.5°	1034.6
40°	845.2
42.5°	687.9
45°	573.2
47.5°	490.7
50°	424.0
52.5°	367.9
55°	317.3
57.5°	277.2
60°	250.7
62.5°	224.0
65°	194.7
67.5°	170.7
70°	146.6
72.5°	122.6
75°	101.3
77.5°	80.0
80°	61.4
82.5°	42.6
85°	26.7
87.5°	10.7
90°	0.0



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— 0°-180°







(END OF REPORT)