

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: P580687

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580687
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC445D010-HM44560827-41WDBB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3458.1 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.03
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

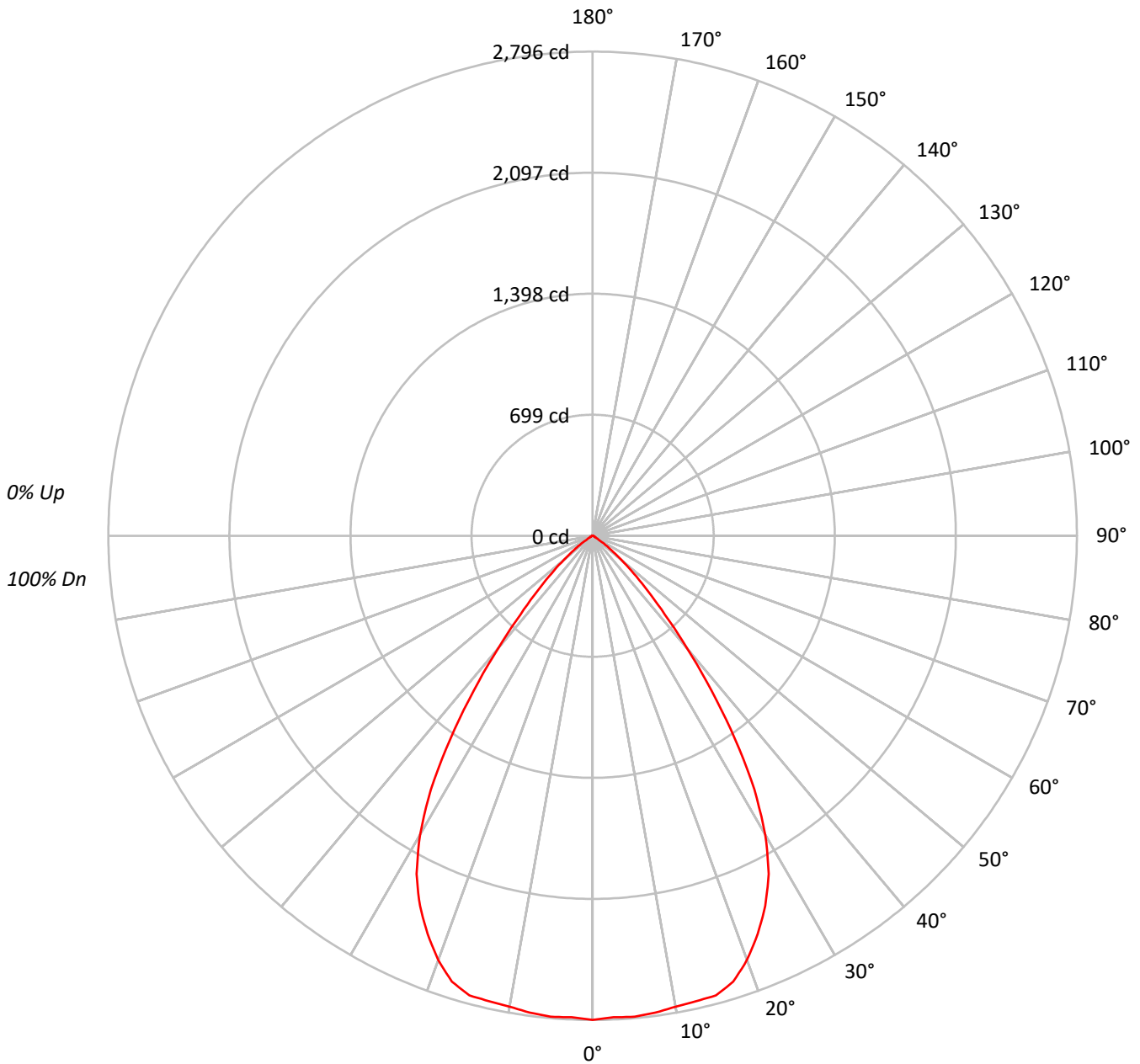
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93	93	93	93
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78	78	78	78
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	73	72	72	72	72
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66	66	66	66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61	61	61	61
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56	56	56	56
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52	52	52	52
9	72	61	55	51	71	61	55	51	60	54	50	59	54	50	58	53	50	49	49	49	49
10	68	58	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45	45	45	45

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	344862
5°	345189
10°	345836
15°	350898
20°	342147
25°	321025
30°	283957
35°	215913
40°	136043
45°	78113
50°	41429
55°	17204
60°	4588
65°	3911
70°	2885
75°	2573
80°	1918
85°	3821



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.1	7.7
10°-20°	769.4	22.3
20°-30°	1073.8	31.1
30°-40°	883.7	25.6
40°-50°	364.0	10.5
50°-60°	82.0	2.4
60°-70°	13.2	0.4
70°-80°	5.0	0.1
80°-90°	1.8	0.1
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°	2108.4	61.0
0°-40°	2992.1	86.5
0°-60°	3438.1	99.4
0°-90°	3458.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3458.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2796	
5°	2788	265
15°	2748	769
25°	2359	1074
35°	1434	884
45°	448	364
55°	80	82
65°	13	13
75°	5	5
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2795.9
2.5°	2782.6
5°	2787.9
7.5°	2777.3
10°	2761.2
12.5°	2753.3
15°	2747.9
17.5°	2700.0
20°	2606.6
22.5°	2489.4
25°	2358.8
27.5°	2201.6
30°	1993.7
32.5°	1737.8
35°	1433.9
37.5°	1127.4
40°	844.9
42.5°	615.6
45°	447.8
47.5°	319.9
50°	215.9
52.5°	135.9
55°	80.0
57.5°	39.9
60°	18.6
62.5°	16.0
65°	13.4
67.5°	10.7
70°	8.0
72.5°	5.4
75°	5.4
77.5°	2.7
80°	2.7
82.5°	2.7
85°	2.7
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)