

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: P584687

Luminaire Tested: **HCC8W45D010BZ-HM82555835-81WDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584687
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W45D010BZ-HM82555835-81WDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5726.9 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

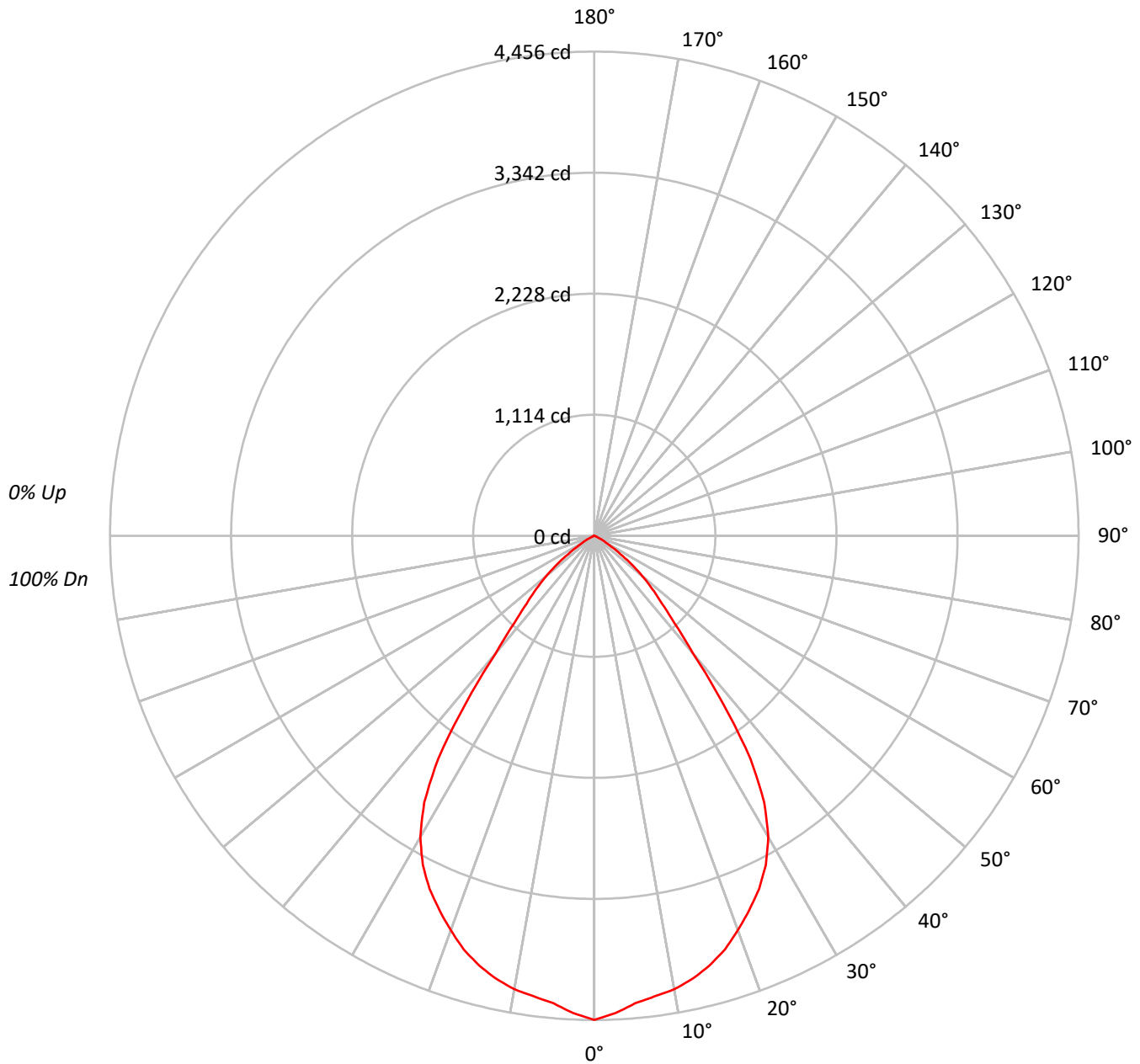
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	110	107	105	110	108	105	103	104	102	100		100	98	97		96
2	106	101	96	93	104	99	95	92	96	92	90		93	90	88		90
3	100	93	87	83	98	91	86	82	89	84	81		86	83	79		84
4	94	86	79	75	92	84	79	74	82	77	73		80	76	72		78
5	88	79	72	68	87	78	72	67	76	71	67		74	70	66		73
6	83	73	66	62	82	72	66	61	71	65	61		69	64	61		68
7	78	68	61	57	77	67	61	56	66	60	56		65	60	56		63
8	74	63	57	52	73	63	56	52	62	56	52		60	55	51		59
9	70	59	53	48	69	59	52	48	58	52	48		57	51	48		56
10	66	55	49	45	65	55	49	45	54	48	44		53	48	44		52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	137404
5°	133706
10°	132688
15°	130713
20°	126752
25°	122024
30°	113984
35°	94329
40°	56955
45°	38354
50°	27642
55°	15757
60°	6938
65°	2488
70°	920
75°	405
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.4	7.2
10°-20°	1150.7	20.1
20°-30°	1641.5	28.7
30°-40°	1494.7	26.1
40°-50°	705.1	12.3
50°-60°	277.3	4.8
60°-70°	44.2	0.8
70°-80°	3.1	0.1
80°-90°	0.0	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°	3202.5	55.9
0°-40°	4697.2	82.0
0°-60°	5679.6	99.2
0°-90°	5726.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5726.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4456	
5°	4320	410
15°	4094	1151
25°	3586	1641
35°	2506	1495
45°	880	705
55°	293	277
65°	34	44
75°	3	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4455.9
2.5°	4397.8
5°	4319.5
7.5°	4275.1
10°	4237.6
12.5°	4176.2
15°	4094.5
17.5°	3992.2
20°	3862.6
22.5°	3726.3
25°	3586.4
27.5°	3416.0
30°	3201.2
32.5°	2911.5
35°	2505.8
37.5°	1936.4
40°	1414.9
42.5°	1087.5
45°	879.5
47.5°	722.8
50°	576.2
52.5°	433.0
55°	293.1
57.5°	184.0
60°	112.5
62.5°	68.2
65°	34.1
67.5°	17.0
70°	10.2
72.5°	3.4
75°	3.4
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



Report Generated By 670245859 / DESKTOP-T8S5UU9

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Peachtree City, GA 30269

Scaled Data Report



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— 0°-180°

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