

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: P584775

Luminaire Tested: **HCC8W45D010BZ-HM82555940-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584775
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W45D010BZ-HM82555940-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5787.5 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

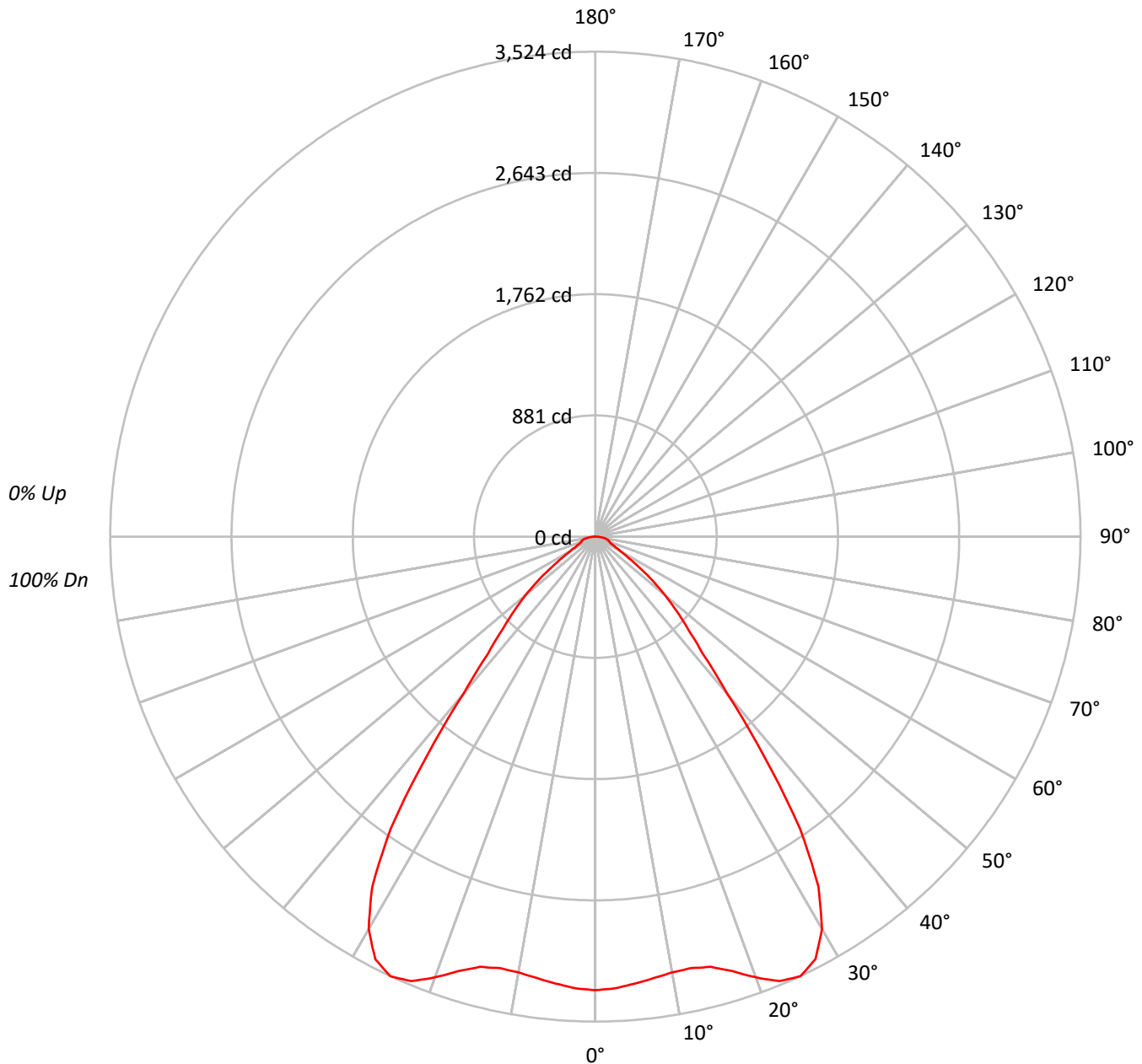
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	112	108	105	103		109	106	103	101		102	100	98		98	97	95		95	93	92
2	105	99	94	89		102	97	92	88		93	90	86		90	87	84		88	85	83
3	98	90	84	79		96	88	83	78		86	81	77		83	79	76		81	77	74
4	92	82	75	70		90	81	75	70		79	73	69		77	72	68		75	71	67
5	86	75	68	63		84	74	68	63		73	67	62		71	66	62		69	65	61
6	80	69	62	57		79	69	62	57		67	61	56		65	60	56		64	59	56
7	75	64	57	52		74	63	57	52		62	56	51		61	55	51		59	55	51
8	71	59	52	47		69	59	52	47		58	51	47		56	51	47		55	50	47
9	67	55	48	43		65	55	48	43		54	47	43		53	47	43		52	47	43
10	63	51	45	40		62	51	44	40		50	44	40		49	44	40		48	43	40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	101640
5°	100938
10°	100678
15°	103319
20°	111854
25°	119918
30°	117239
35°	97626
40°	59974
45°	41525
50°	31691
55°	20779
60°	13001
65°	9741
70°	9827
75°	11307
80°	12484
85°	11216



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.8	5.4
10°-20°	929.1	16.1
20°-30°	1599.4	27.6
30°-40°	1549.6	26.8
40°-50°	763.2	13.2
50°-60°	360.2	6.2
60°-70°	141.9	2.5
70°-80°	97.9	1.7
80°-90°	36.4	0.6
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°	2838.3	49.0
0°-40°	4387.9	75.8
0°-60°	5511.2	95.2
0°-90°	5787.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5787.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3296	
5°	3261	310
15°	3236	929
25°	3524	1599
35°	2593	1550
45°	952	763
55°	386	360
65°	134	142
75°	95	98
85°	32	36
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3296.1
2.5°	3285.6
5°	3260.9
7.5°	3236.4
10°	3215.3
12.5°	3211.8
15°	3236.4
17.5°	3310.2
20°	3408.6
22.5°	3496.5
25°	3524.5
27.5°	3461.3
30°	3292.6
32.5°	3015.0
35°	2593.4
37.5°	2013.6
40°	1489.9
42.5°	1156.1
45°	952.2
47.5°	801.2
50°	660.6
52.5°	520.1
55°	386.5
57.5°	281.2
60°	210.8
62.5°	165.2
65°	133.5
67.5°	116.0
70°	109.0
72.5°	101.9
75°	94.9
77.5°	84.3
80°	70.3
82.5°	52.7
85°	31.7
87.5°	14.1
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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1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



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1121 Highway 74 South
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— 0°-180°

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Scaled Data Report



(END OF REPORT)