

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: P584771

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584771
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W45D010BZ-HM82555940-81WDBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5263.8 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

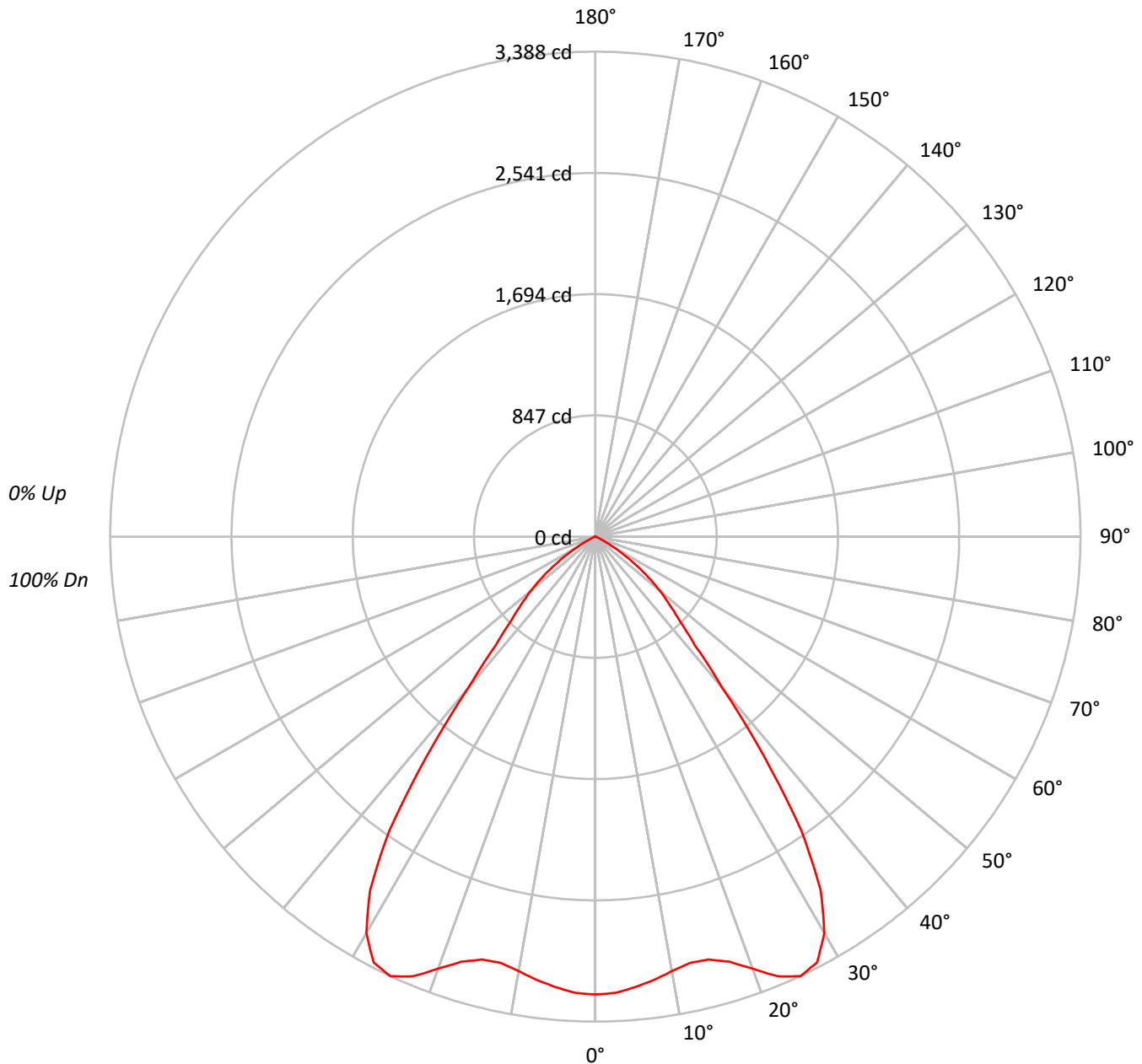
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P584771

CATALOG NUMBER: HCC8W45D010BZ-HM82555940-81WDBB

Luminous Intensity Polar Plot





TEST NUMBER: P584771

CATALOG NUMBER: HCC8W45D010BZ-HM82555940-81WDBB

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	113	109	107	104		110	107	105	102		103	101	99		99	98	96		96	95	93
2	106	100	95	92		104	98	94	91		95	92	89		92	89	87		89	87	85
3	99	92	86	81		97	90	85	81		88	83	79		85	81	78		83	80	77
4	93	84	78	73		91	83	77	72		81	76	71		79	74	71		77	73	70
5	87	77	71	66		85	76	70	65		74	69	65		73	68	64		71	67	63
6	82	71	64	59		80	70	64	59		69	63	59		67	62	58		66	61	58
7	77	66	59	54		75	65	59	54		64	58	54		63	57	53		61	57	53
8	72	61	54	49		71	61	54	49		59	53	49		58	53	49		57	52	49
9	68	57	50	45		67	56	50	45		55	49	45		54	49	45		53	48	45
10	64	53	46	42		63	53	46	42		52	46	42		51	45	42		50	45	41

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	98624
5°	97806
10°	96516
15°	97618
20°	105416
25°	115277
30°	113881
35°	94468
40°	55599
45°	36322
50°	28160
55°	18704
60°	9103
65°	2824
70°	956
75°	834
80°	622
85°	1238



TEST NUMBER: P584771

CATALOG NUMBER: HCC8W45D010BZ-HM82555940-81WDBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.2	5.7
10°-20°	878.5	16.7
20°-30°	1535.9	29.2
30°-40°	1494.1	28.4
40°-50°	679.5	12.9
50°-60°	315.0	6.0
60°-70°	52.8	1.0
70°-80°	6.5	0.1
80°-90°	2.4	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°	2713.6	51.6
0°-40°	4207.7	79.9
0°-60°	5202.1	98.8
0°-90°	5263.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5263.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3198	
5°	3160	299
15°	3058	878
25°	3388	1536
35°	2510	1494
45°	833	679
55°	348	315
65°	39	53
75°	7	6
85°	4	2
90°	0	



TEST NUMBER: P584771

CATALOG NUMBER: HCC8W45D010BZ-HM82555940-81WDBB

CANDELA DISTRIBUTION (FULL):

0°	
0°	3198.3
2.5°	3191.3
5°	3159.7
7.5°	3124.5
10°	3082.4
12.5°	3050.7
15°	3057.8
17.5°	3114.0
20°	3212.4
22.5°	3324.9
25°	3388.1
27.5°	3353.0
30°	3198.3
32.5°	2927.7
35°	2509.5
37.5°	1933.1
40°	1381.2
42.5°	1029.8
45°	832.9
47.5°	703.0
50°	587.0
52.5°	467.4
55°	347.9
57.5°	238.9
60°	147.6
62.5°	80.8
65°	38.7
67.5°	17.6
70°	10.6
72.5°	7.0
75°	7.0
77.5°	3.5
80°	3.5
82.5°	3.5
85°	3.5
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

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)