

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: P584774

Luminaire Tested: **HCC8S45D010BZ-HM82555940-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584774
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8S45D010BZ-HM82555940-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5397.3 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

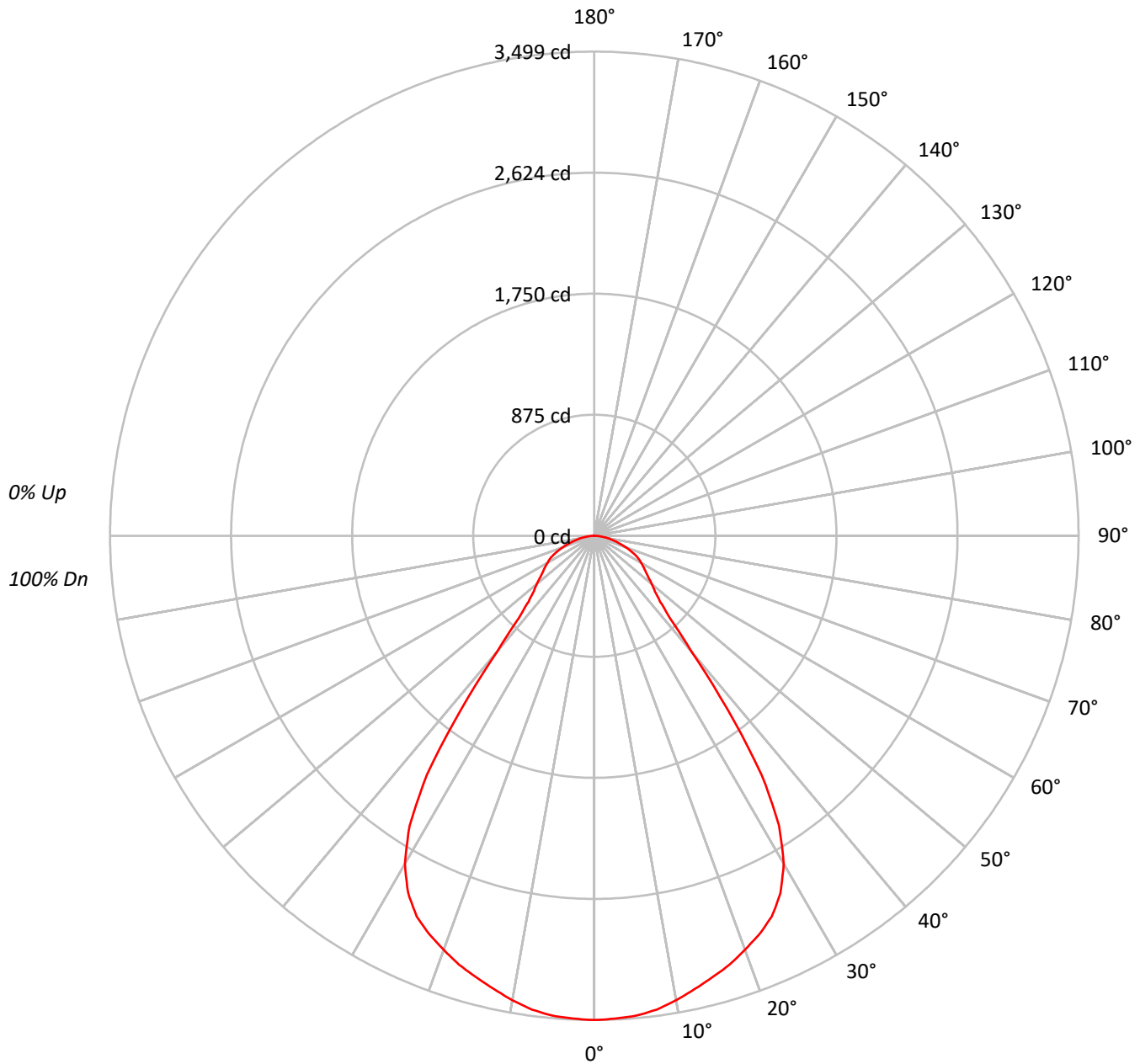
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	104	101		109	105	102	100		101	99	96		97	95	94		94	92	91
2	104	97	92	87		101	95	90	86		92	88	84		89	85	82		86	83	81
3	97	88	82	76		94	87	81	76		84	79	75		81	77	73		79	75	72
4	90	80	73	68		88	79	73	67		77	71	67		75	70	66		73	68	65
5	84	74	66	61		82	73	66	61		71	65	60		69	64	59		67	63	59
6	79	68	61	55		77	67	60	55		65	59	55		64	58	54		62	58	54
7	74	63	56	50		73	62	55	50		61	54	50		59	54	50		58	53	49
8	70	58	51	46		69	58	51	46		57	50	46		55	50	46		54	49	45
9	66	54	47	43		65	54	47	42		53	47	42		52	46	42		51	46	42
10	62	51	44	39		61	50	44	39		49	43	39		49	43	39		48	43	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	107906
5°	107773
10°	106708
15°	105433
20°	104454
25°	103280
30°	97448
35°	79354
40°	43841
45°	29266
50°	25958
55°	24365
60°	24052
65°	23845
70°	21539
75°	19253
80°	16852
85°	14895



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.0	6.1
10°-20°	932.5	17.3
20°-30°	1385.6	25.7
30°-40°	1247.8	23.1
40°-50°	553.2	10.2
50°-60°	409.7	7.6
60°-70°	318.6	5.9
70°-80°	172.7	3.2
80°-90°	47.3	0.9
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°	2648.1	49.1
0°-40°	3895.9	72.2
0°-60°	4858.7	90.0
0°-90°	5397.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5397.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3499	
5°	3482	330
15°	3303	932
25°	3036	1386
35°	2108	1248
45°	671	553
55°	453	410
65°	327	319
75°	162	173
85°	42	47
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3499.3
2.5°	3492.3
5°	3481.7
7.5°	3453.7
10°	3407.9
12.5°	3355.2
15°	3302.6
17.5°	3249.8
20°	3183.1
22.5°	3116.3
25°	3035.5
27.5°	2912.6
30°	2736.8
32.5°	2483.9
35°	2108.0
37.5°	1573.9
40°	1089.1
42.5°	804.6
45°	671.1
47.5°	593.8
50°	541.1
52.5°	491.8
55°	453.2
57.5°	421.6
60°	390.0
62.5°	361.9
65°	326.8
67.5°	284.6
70°	238.9
72.5°	200.2
75°	161.6
77.5°	126.4
80°	94.9
82.5°	66.7
85°	42.1
87.5°	17.6
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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Cooper Lighting Solutions Photometric Lab
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— 0°-180°

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(END OF REPORT)