

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



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: P584672

Luminaire Tested: **HCC8S45D010MB-HM82555830-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584672
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: HCC8S45D010MB-HM82555830-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

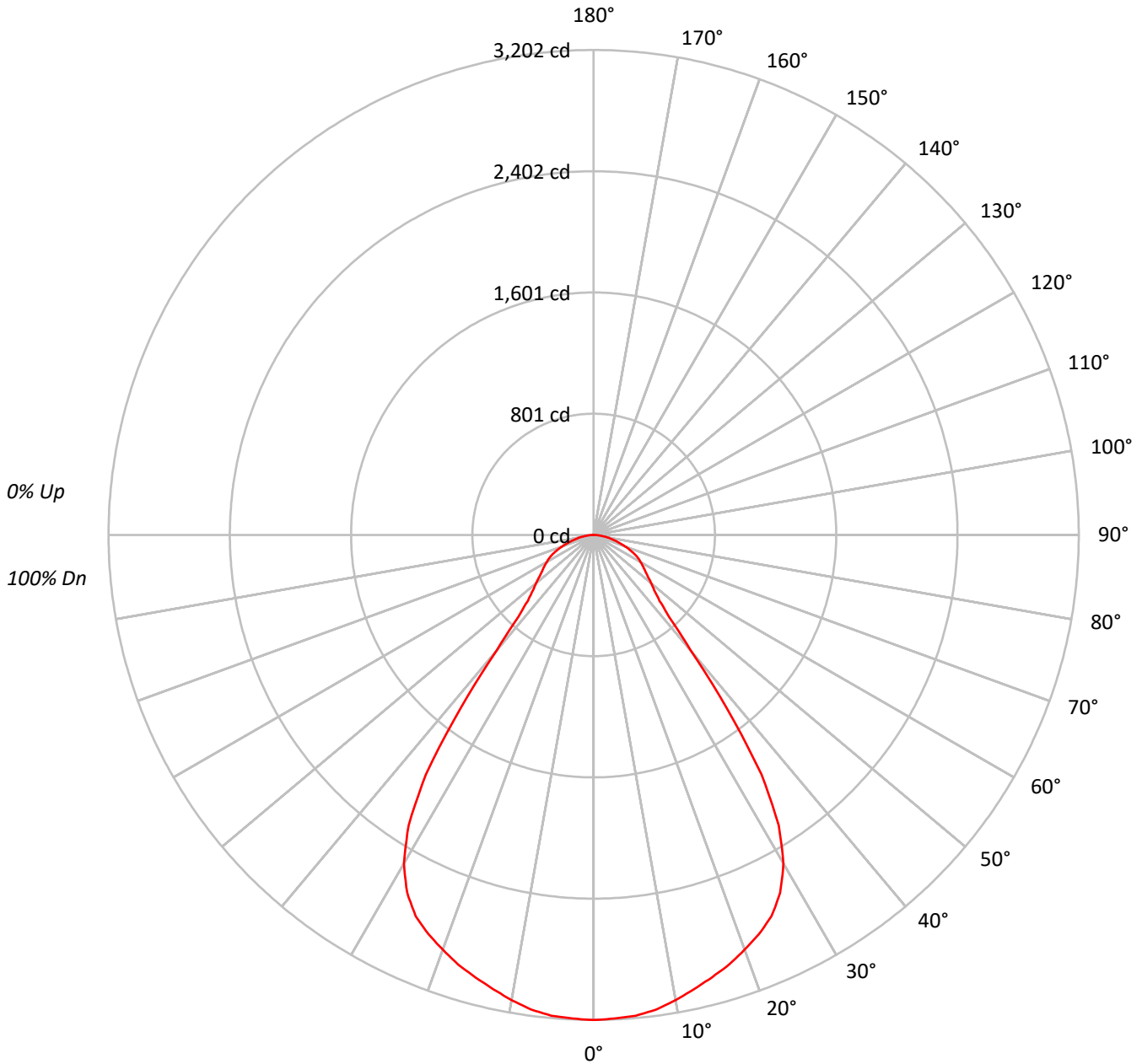
Lumens per Lamp: N/A
Luminaire Lumens: 4939.6 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): 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: P584672
CATALOG NUMBER: HCC8S45D010MB-HM82555830-81WDW

Luminous Intensity Polar Plot





TEST NUMBER: P584672
 CATALOG NUMBER: HCC8S45D010MB-HM82555830-81WDW

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	98753
5°	98635
10°	97659
15°	96491
20°	95594
25°	94519
30°	89184
35°	72623
40°	40125
45°	26785
50°	23751
55°	22300
60°	22011
65°	21817
70°	19709
75°	17621
80°	15414
85°	13657



TEST NUMBER: P584672
 CATALOG NUMBER: HCC8S45D010MB-HM82555830-81WDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.0	6.1
10°-20°	853.4	17.3
20°-30°	1268.1	25.7
30°-40°	1142.0	23.1
40°-50°	506.3	10.2
50°-60°	374.9	7.6
60°-70°	291.5	5.9
70°-80°	158.1	3.2
80°-90°	43.3	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°	2423.5	49.1
0°-40°	3565.4	72.2
0°-60°	4446.7	90.0
0°-90°	4939.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4939.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3202	
5°	3186	302
15°	3022	853
25°	2778	1268
35°	1929	1142
45°	614	506
55°	415	375
65°	299	292
75°	148	158
85°	39	43
90°	0	



TEST NUMBER: P584672
CATALOG NUMBER: HCC8S45D010MB-HM82555830-81WDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	3202.5
2.5°	3196.1
5°	3186.5
7.5°	3160.6
10°	3118.9
12.5°	3070.7
15°	3022.5
17.5°	2974.3
20°	2913.1
22.5°	2852.0
25°	2778.0
27.5°	2665.5
30°	2504.7
32.5°	2273.3
35°	1929.2
37.5°	1440.4
40°	996.8
42.5°	736.3
45°	614.2
47.5°	543.5
50°	495.1
52.5°	450.2
55°	414.8
57.5°	385.8
60°	356.9
62.5°	331.1
65°	299.0
67.5°	260.4
70°	218.6
72.5°	183.2
75°	147.9
77.5°	115.8
80°	86.8
82.5°	61.1
85°	38.6
87.5°	16.1
90°	0.0

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

Scaled Data Report



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)