

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: P584733

Luminaire Tested: **HCC8S45D010MW-HM82555930-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584733
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8S45D010MW-HM82555930-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

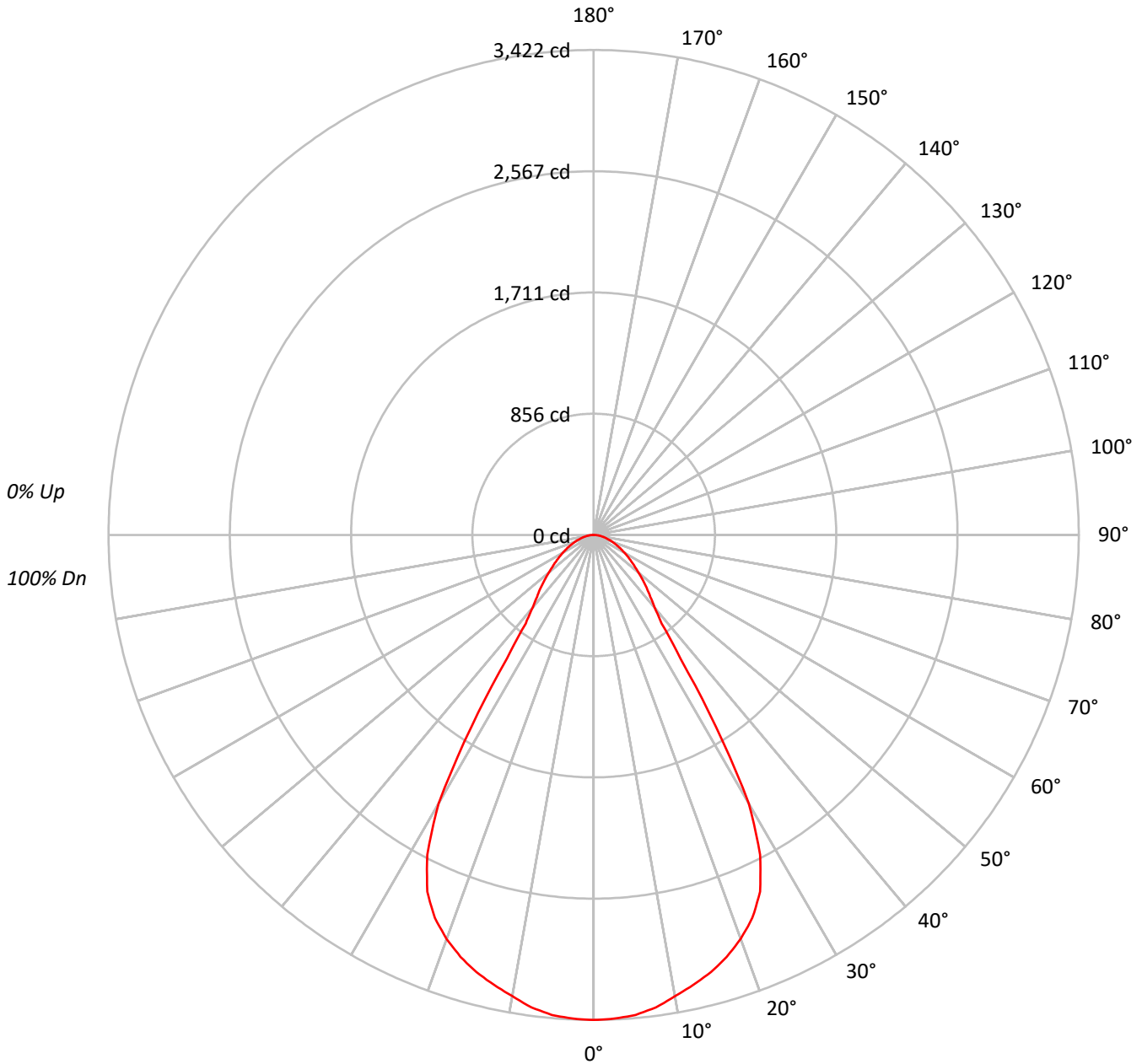
Lumens per Lamp: N/A
Luminaire Lumens: 4233.9 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P584733
CATALOG NUMBER: HCC8S45D010MW-HM82555930-81NDW

Luminous Intensity Polar Plot





TEST NUMBER: P584733

CATALOG NUMBER: HCC8S45D010MW-HM82555930-81NDW

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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90	90	90	90
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81	81	81	81
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73	73	73	73
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67	67	67	67
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61	61	61	61
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56	56	56	56
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52	52	52	52
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48	48	48	48
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45	45	45	45
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42	42	42	42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	105531
5°	105250
10°	103496
15°	101982
20°	99539
25°	94488
30°	77936
35°	40125
40°	26865
45°	23034
50°	19875
55°	17343
60°	15406
65°	13849
70°	12541
75°	11307
80°	10104
85°	10084



TEST NUMBER: P584733
 CATALOG NUMBER: HCC8S45D010MW-HM82555930-81NDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.5	7.6
10°-20°	898.8	21.2
20°-30°	1245.3	29.4
30°-40°	748.0	17.7
40°-50°	409.5	9.7
50°-60°	290.9	6.9
60°-70°	188.8	4.5
70°-80°	100.9	2.4
80°-90°	30.2	0.7
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°	2465.6	58.2
0°-40°	3213.6	75.9
0°-60°	3913.9	92.4
0°-90°	4233.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4233.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3422	
5°	3400	321
15°	3194	899
25°	2777	1245
35°	1066	748
45°	528	409
55°	323	291
65°	190	189
75°	95	101
85°	28	30
90°	0	



TEST NUMBER: P584733
CATALOG NUMBER: HCC8S45D010MW-HM82555930-81NDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	3422.3
2.5°	3416.0
5°	3400.2
7.5°	3362.2
10°	3305.3
12.5°	3251.6
15°	3194.5
17.5°	3121.8
20°	3033.3
22.5°	2925.7
25°	2777.1
27.5°	2543.1
30°	2188.8
32.5°	1603.6
35°	1065.9
37.5°	787.6
40°	667.4
42.5°	591.4
45°	528.2
47.5°	468.1
50°	414.3
52.5°	363.7
55°	322.6
57.5°	284.7
60°	249.8
62.5°	218.3
65°	189.8
67.5°	161.3
70°	139.1
72.5°	113.9
75°	94.9
77.5°	75.9
80°	56.9
82.5°	41.2
85°	28.5
87.5°	12.7
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)