

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: P584720

Luminaire Tested: **HCC8S45D010MW-HM82555927-81WDBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584720
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: HCC8S45D010MW-HM82555927-81WDBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

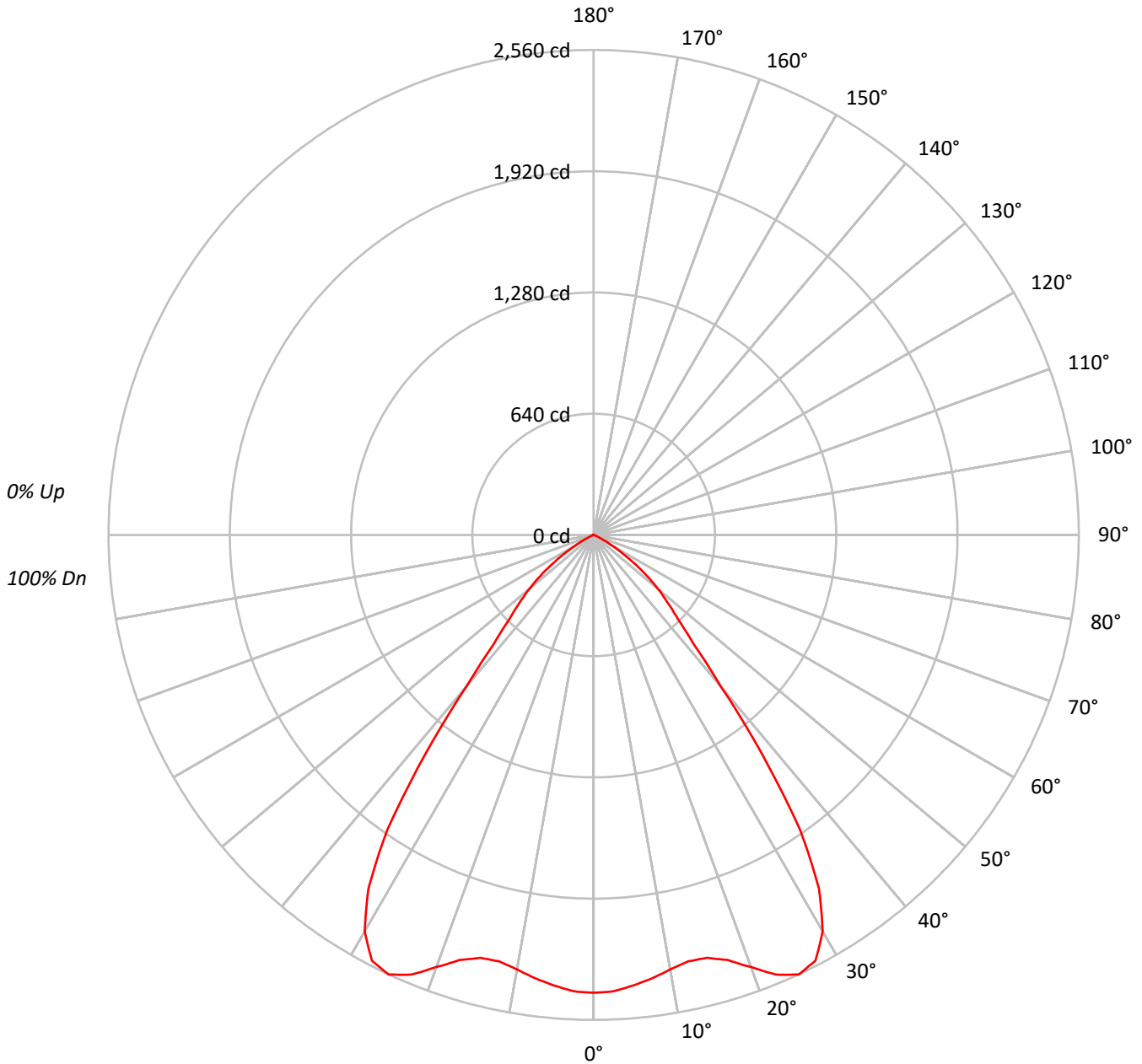
Lumens per Lamp: N/A
Luminaire Lumens: 3977.7 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 44
Input Voltage (V): NR
Input Current (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: P584720
CATALOG NUMBER: HCC8S45D010MW-HM82555927-81WDBB

Luminous Intensity Polar Plot





TEST NUMBER: P584720

CATALOG NUMBER: HCC8S45D010MW-HM82555927-81WDBB

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			
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92			
2	106	100	95	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68			
5	87	77	71	66	85	76	70	65	74	69	65	73	68	64	71	67	63	62			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			
10	64	53	46	42	63	53	46	42	52	46	42	51	45	42	50	45	41	40			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	74525
5°	73906
10°	72932
15°	73764
20°	79659
25°	87112
30°	86054
35°	71385
40°	42013
45°	27448
50°	21276
55°	14139
60°	6883
65°	2131
70°	721
75°	631
80°	479
85°	955



TEST NUMBER: P584720
 CATALOG NUMBER: HCC8S45D010MW-HM82555927-81WDBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.1	5.7
10°-20°	663.8	16.7
20°-30°	1160.6	29.2
30°-40°	1129.0	28.4
40°-50°	513.4	12.9
50°-60°	238.1	6.0
60°-70°	39.9	1.0
70°-80°	4.9	0.1
80°-90°	1.8	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°	2050.6	51.6
0°-40°	3179.6	79.9
0°-60°	3931.0	98.8
0°-90°	3977.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3977.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2417	
5°	2388	226
15°	2311	664
25°	2560	1161
35°	1896	1129
45°	629	513
55°	263	238
65°	29	40
75°	5	5
85°	3	2
90°	0	



TEST NUMBER: P584720
CATALOG NUMBER: HCC8S45D010MW-HM82555927-81WDBB

CANDELA DISTRIBUTION (FULL):

0°	
0°	2416.8
2.5°	2411.6
5°	2387.6
7.5°	2361.0
10°	2329.2
12.5°	2305.3
15°	2310.6
17.5°	2353.2
20°	2427.5
22.5°	2512.4
25°	2560.3
27.5°	2533.7
30°	2416.8
32.5°	2212.4
35°	1896.3
37.5°	1460.7
40°	1043.7
42.5°	778.2
45°	629.4
47.5°	531.1
50°	443.5
52.5°	353.2
55°	263.0
57.5°	180.6
60°	111.6
62.5°	61.1
65°	29.2
67.5°	13.3
70°	8.0
72.5°	5.3
75°	5.3
77.5°	2.7
80°	2.7
82.5°	2.7
85°	2.7
87.5°	0.0
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)