

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: P584716

Luminaire Tested: **HCC8W45D010MB-HM82555927-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584716
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: HCC8W45D010MB-HM82555927-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

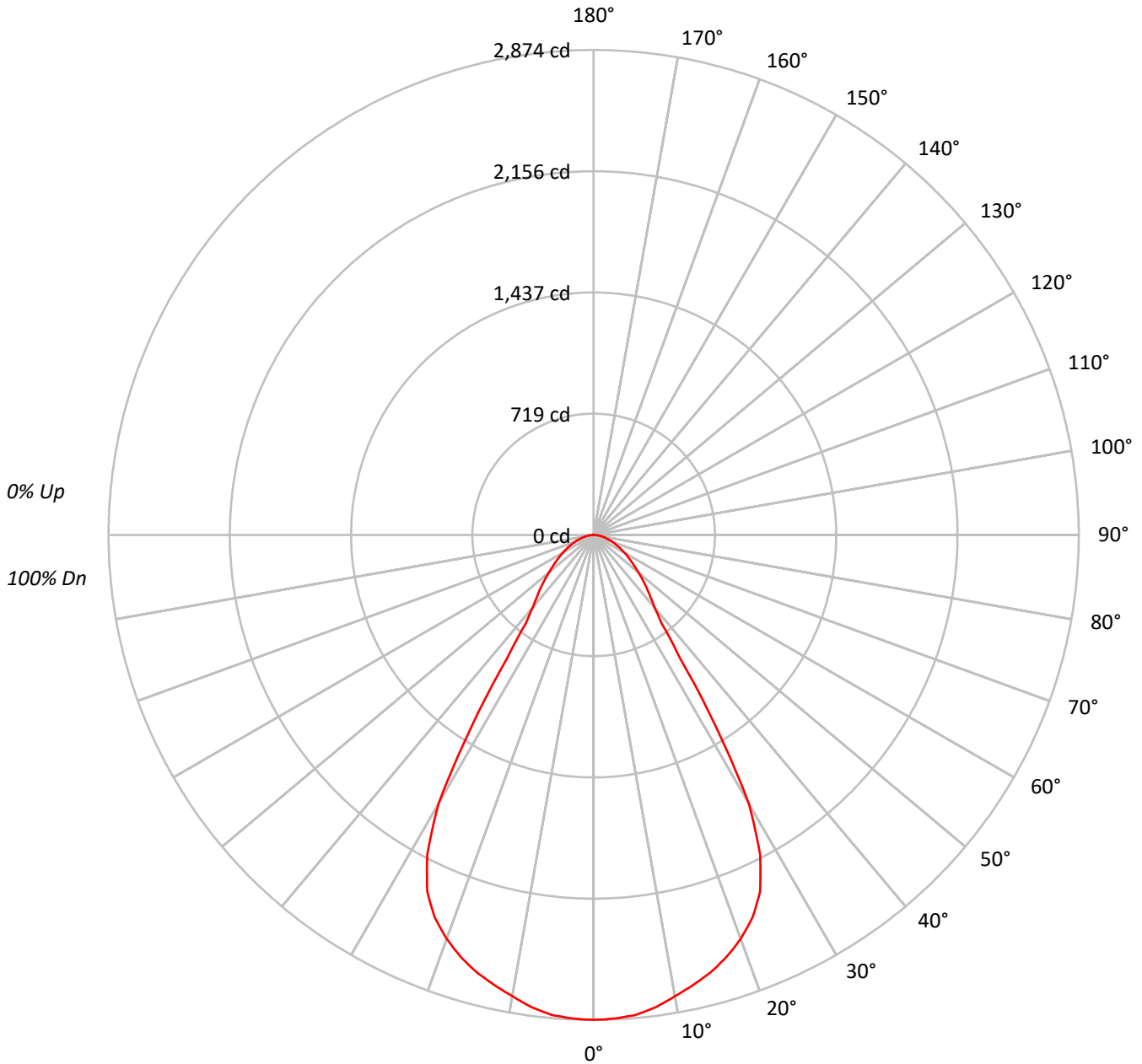
Lumens per Lamp: N/A
Luminaire Lumens: 3555.4 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 44
Input Voltage (V): NR
Input Current (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: P584716
CATALOG NUMBER: HCC8W45D010MB-HM82555927-81NDW

Luminous Intensity Polar Plot





TEST NUMBER: P584716

CATALOG NUMBER: HCC8W45D010MB-HM82555927-81NDW

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	88624
5°	88383
10°	86913
15°	85643
20°	83590
25°	79344
30°	65449
35°	33695
40°	22562
45°	19345
50°	16690
55°	14569
60°	12939
65°	11631
70°	10531
75°	9484
80°	8506
85°	8456



TEST NUMBER: P584716
 CATALOG NUMBER: HCC8W45D010MB-HM82555927-81NDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.0	7.6
10°-20°	754.8	21.2
20°-30°	1045.8	29.4
30°-40°	628.1	17.7
40°-50°	343.9	9.7
50°-60°	244.3	6.9
60°-70°	158.6	4.5
70°-80°	84.7	2.4
80°-90°	25.3	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°	2070.5	58.2
0°-40°	2698.7	75.9
0°-60°	3286.8	92.4
0°-90°	3555.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3555.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2874	
5°	2855	270
15°	2683	755
25°	2332	1046
35°	895	628
45°	444	344
55°	271	244
65°	159	159
75°	80	85
85°	24	25
90°	0	



TEST NUMBER: P584716
CATALOG NUMBER: HCC8W45D010MB-HM82555927-81NDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	2874.0
2.5°	2868.7
5°	2855.3
7.5°	2823.5
10°	2775.7
12.5°	2730.5
15°	2682.7
17.5°	2621.7
20°	2547.3
22.5°	2457.0
25°	2332.0
27.5°	2135.6
30°	1838.1
32.5°	1346.7
35°	895.1
37.5°	661.3
40°	560.5
42.5°	496.6
45°	443.6
47.5°	393.1
50°	347.9
52.5°	305.4
55°	271.0
57.5°	239.1
60°	209.8
62.5°	183.2
65°	159.4
67.5°	135.5
70°	116.8
72.5°	95.6
75°	79.6
77.5°	63.7
80°	47.9
82.5°	34.5
85°	23.9
87.5°	10.7
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)