

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: P584748

Luminaire Tested: **HCC8W45D010SL-HM82555935-81NDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584748
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W45D010SL-HM82555935-81NDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

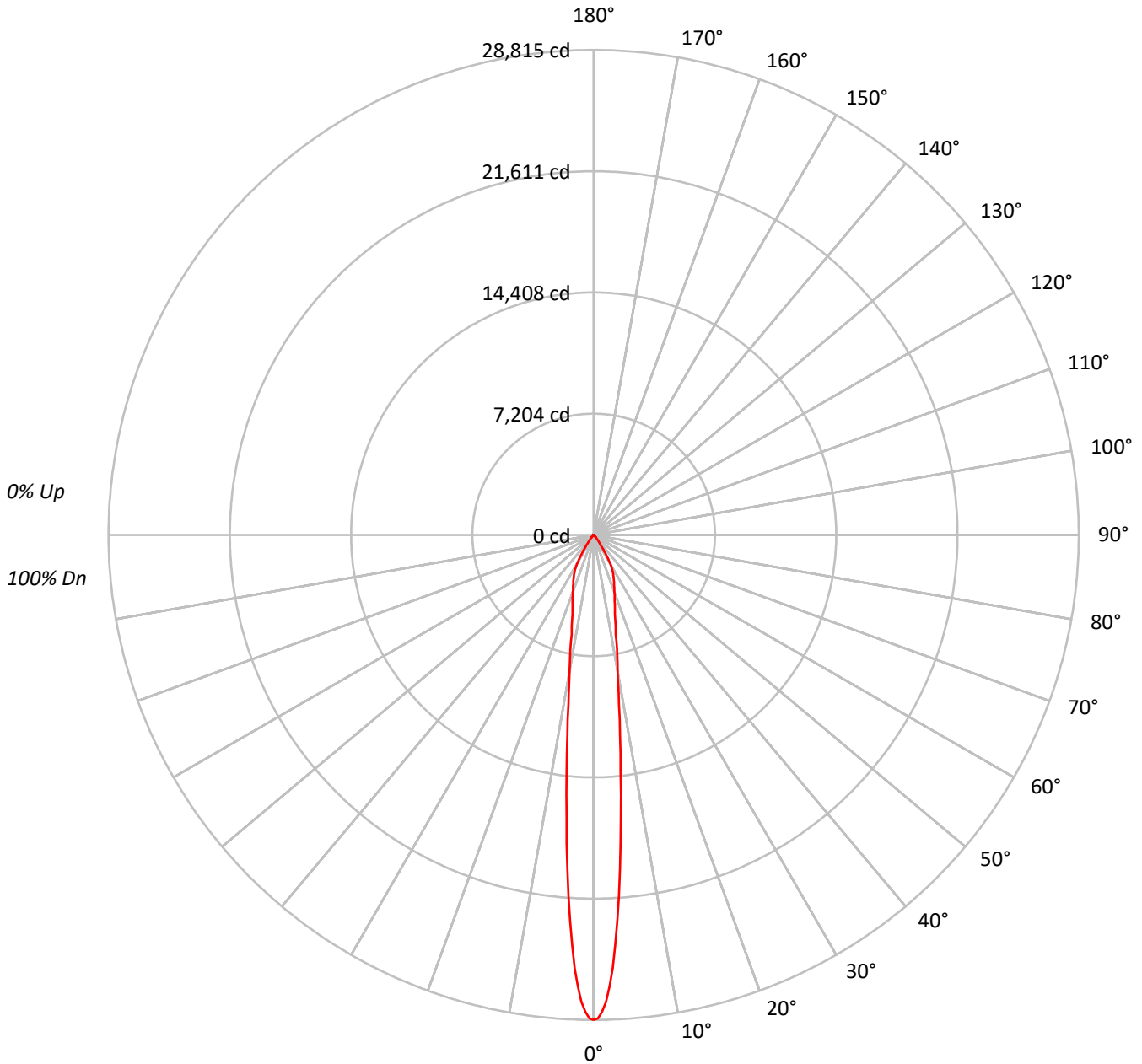
Lumens per Lamp: N/A
Luminaire Lumens: 4720.8 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.27
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P584748
CATALOG NUMBER: HCC8W45D010SL-HM82555935-81NDC

Luminous Intensity Polar Plot





TEST NUMBER: P584748

CATALOG NUMBER: HCC8W45D010SL-HM82555935-81NDC

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	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96	96	96	96
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91	91	91	91
3	106	101	97	93	104	99	96	93	97	94	91	95	92	90	92	90	89	87	87	87	87
4	102	96	91	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83	83	83	83
5	98	92	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80	80	80	80
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	76	76	76	76
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73	73	73	73
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71	71	71	71
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68	68	68	68
10	83	75	70	67	82	75	70	67	74	70	67	73	69	67	73	69	67	66	66	66	66

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	888548
5°	569933
10°	257460
15°	155346
20°	118378
25°	95598
30°	70053
35°	25365
40°	9468
45°	4295
50°	1372
55°	339
60°	197
65°	233
70°	0
75°	0
80°	568
85°	1132



TEST NUMBER: P584748
 CATALOG NUMBER: HCC8W45D010SL-HM82555935-81NDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1404.3	29.7
10°-20°	1426.3	30.2
20°-30°	1276.8	27.0
30°-40°	514.3	10.9
40°-50°	84.3	1.8
50°-60°	7.7	0.2
60°-70°	2.8	0.1
70°-80°	2.1	0.0
80°-90°	3.1	0.1
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°	4107.4	87.0
0°-40°	4621.7	97.9
0°-60°	4713.7	99.8
0°-90°	4721.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4720.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	28815	
5°	18412	###
15°	4866	1426
25°	2810	1277
35°	674	514
45°	98	84
55°	6	8
65°	3	3
75°	0	2
85°	3	3
90°	0	



TEST NUMBER: P584748
CATALOG NUMBER: HCC8W45D010SL-HM82555935-81NDC

CANDELA DISTRIBUTION (FULL):

	0°
0°	28815.0
0.5°	28725.9
1°	28354.1
1.5°	27756.6
2°	26850.7
2.5°	25779.6
3°	24438.4
3.5°	22966.8
4°	21511.1
4.5°	19880.6
5°	18412.2
5.5°	16813.4
6°	15516.7
6.5°	14166.0
7°	13104.4
7.5°	11982.4
8°	11079.7
8.5°	10173.9
9°	9493.8
9.5°	8743.7
10°	8222.4
12.5°	6064.3
15°	4866.1
17.5°	4157.2
20°	3607.4
22.5°	3168.9
25°	2809.7
27.5°	2450.5
30°	1967.4
32.5°	1265.0
35°	673.8
37.5°	371.8
40°	235.2
42.5°	155.8
45°	98.5
47.5°	60.4
50°	28.6
52.5°	9.5
55°	6.3
57.5°	3.2
60°	3.2
62.5°	3.2
65°	3.2



TEST NUMBER: P584748
CATALOG NUMBER: HCC8W45D010SL-HM82555935-81NDC

CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	3.2
80°	3.2
82.5°	3.2
85°	3.2
87.5°	3.2
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



67.5°		3.2
70°		0.0

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

Scaled Data Report



(END OF REPORT)