

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: P584546

Luminaire Tested: **HCC8S40D010SL-HM82555835-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584546
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: HCC8S40D010SL-HM82555835-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

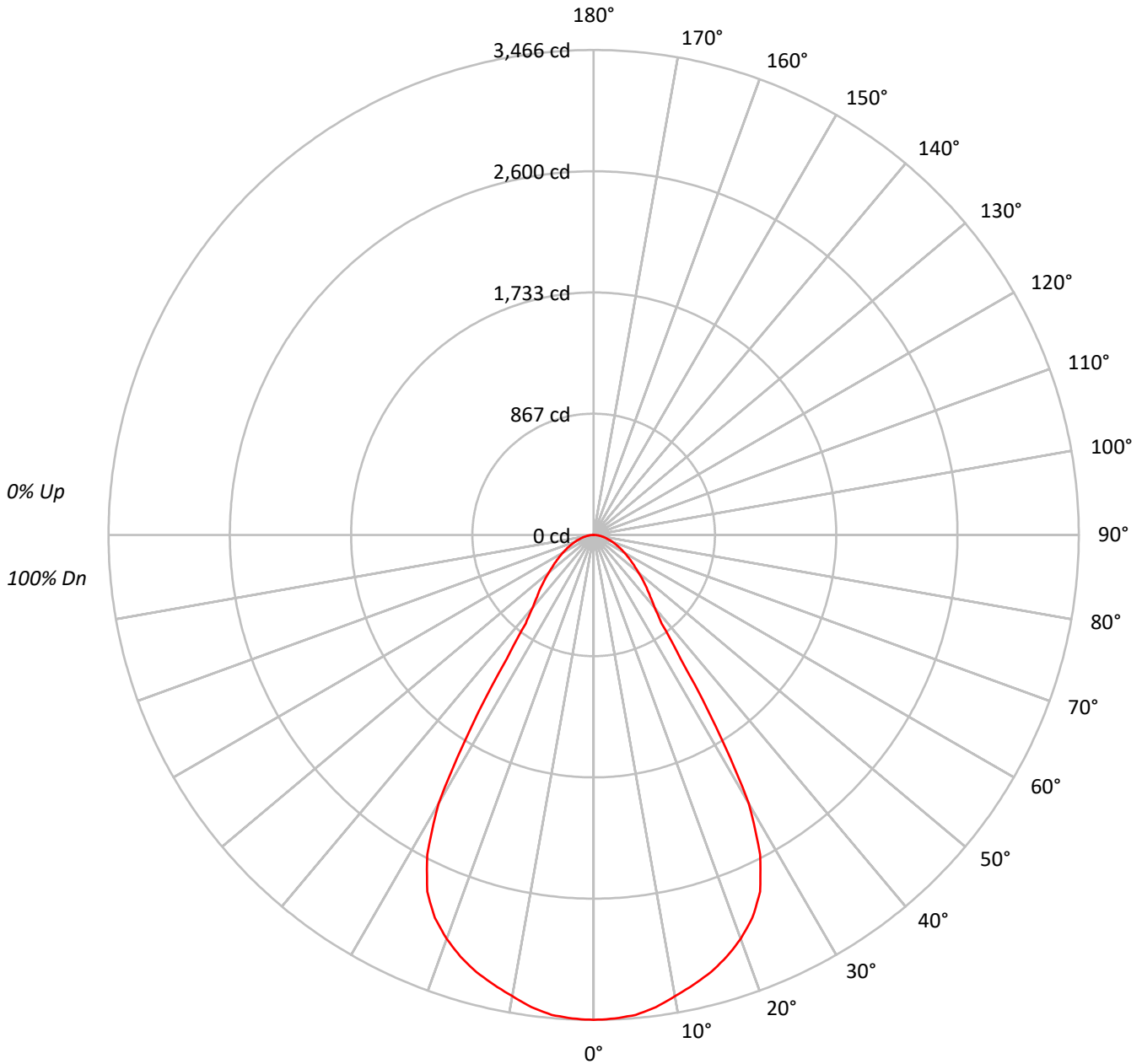
Lumens per Lamp: N/A
Luminaire Lumens: 4288.0 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 41
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: P584546
CATALOG NUMBER: HCC8S40D010SL-HM82555835-81NDW

Luminous Intensity Polar Plot



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



TEST NUMBER: P584546

CATALOG NUMBER: HCC8S40D010SL-HM82555835-81NDW

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°	106879
5°	106594
10°	104817
15°	103287
20°	100809
25°	95696
30°	78929
35°	40641
40°	27208
45°	23327
50°	20129
55°	17569
60°	15609
65°	14024
70°	12703
75°	11461
80°	10246
85°	10190



TEST NUMBER: P584546
 CATALOG NUMBER: HCC8S40D010SL-HM82555835-81NDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.6	7.6
10°-20°	910.3	21.2
20°-30°	1261.2	29.4
30°-40°	757.6	17.7
40°-50°	414.7	9.7
50°-60°	294.6	6.9
60°-70°	191.3	4.5
70°-80°	102.2	2.4
80°-90°	30.5	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°	2497.1	58.2
0°-40°	3254.7	75.9
0°-60°	3964.0	92.4
0°-90°	4288.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4288.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3466	
5°	3444	326
15°	3235	910
25°	2813	1261
35°	1080	758
45°	535	415
55°	327	295
65°	192	191
75°	96	102
85°	29	31
90°	0	



TEST NUMBER: P584546
CATALOG NUMBER: HCC8S40D010SL-HM82555835-81NDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	3466.0
2.5°	3459.6
5°	3443.6
7.5°	3405.2
10°	3347.5
12.5°	3293.0
15°	3235.4
17.5°	3161.7
20°	3072.0
22.5°	2963.1
25°	2812.6
27.5°	2575.5
30°	2216.7
32.5°	1624.1
35°	1079.6
37.5°	797.7
40°	675.9
42.5°	599.0
45°	534.9
47.5°	474.1
50°	419.6
52.5°	368.4
55°	326.8
57.5°	288.3
60°	253.1
62.5°	221.0
65°	192.2
67.5°	163.4
70°	140.9
72.5°	115.3
75°	96.2
77.5°	76.9
80°	57.7
82.5°	41.6
85°	28.8
87.5°	12.9
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)