

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: P584512

Luminaire Tested: **HCC8S40D010MB-HM82555827-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584512
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: HCC8S40D010MB-HM82555827-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

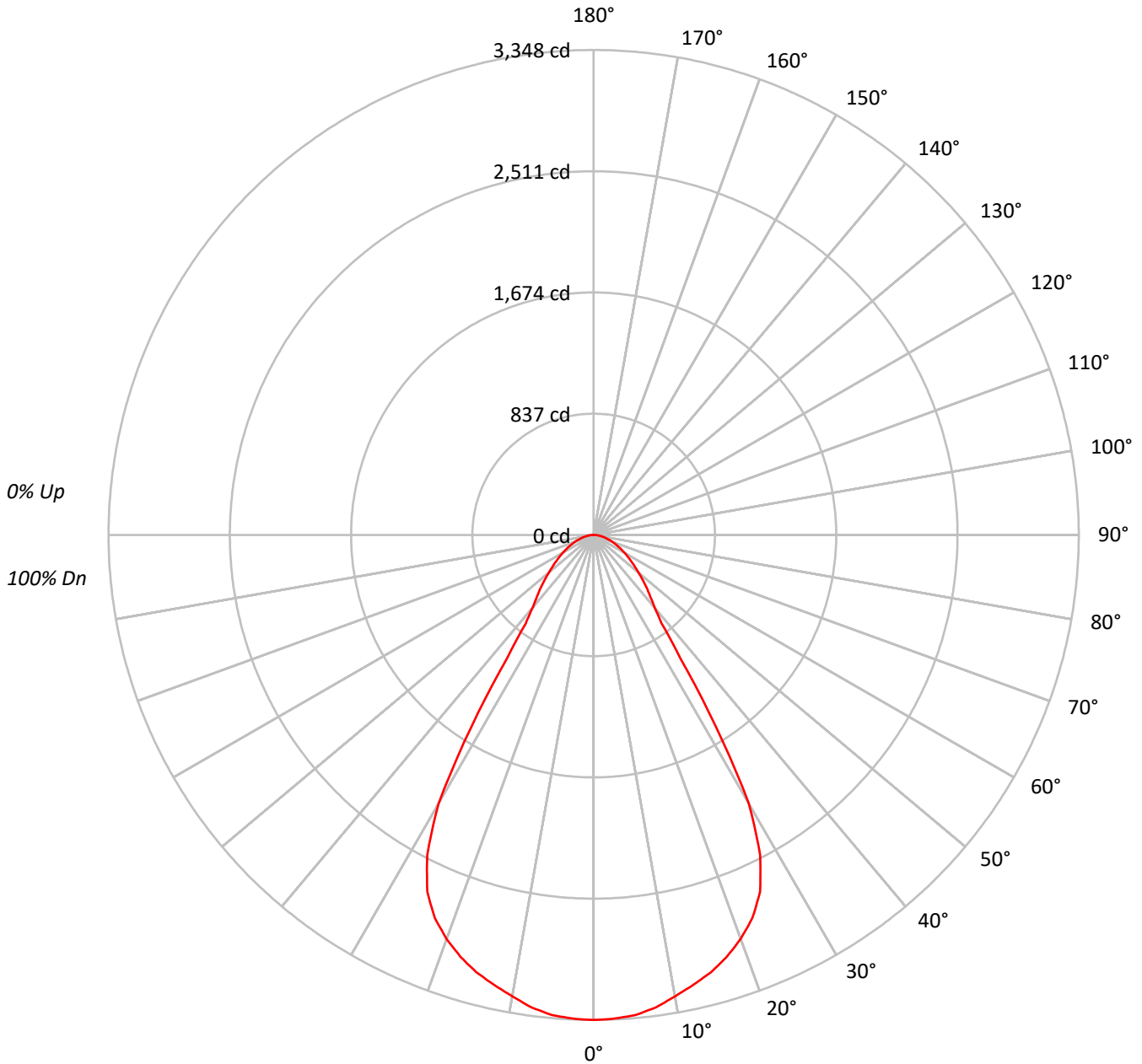
Lumens per Lamp: N/A
Luminaire Lumens: 4142.3 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P584512
CATALOG NUMBER: HCC8S40D010MB-HM82555827-81NDW

Luminous Intensity Polar Plot





TEST NUMBER: P584512

CATALOG NUMBER: HCC8S40D010MB-HM82555827-81NDW

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°	103252
5°	102978
10°	101260
15°	99779
20°	97386
25°	92447
30°	76252
35°	39259
40°	26286
45°	22537
50°	19448
55°	16972
60°	15073
65°	13542
70°	12271
75°	11056
80°	9891
85°	9836



TEST NUMBER: P584512
 CATALOG NUMBER: HCC8S40D010MB-HM82555827-81NDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.5	7.6
10°-20°	879.4	21.2
20°-30°	1218.4	29.4
30°-40°	731.8	17.7
40°-50°	400.6	9.7
50°-60°	284.6	6.9
60°-70°	184.7	4.5
70°-80°	98.7	2.4
80°-90°	29.5	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°	2412.3	58.2
0°-40°	3144.2	75.9
0°-60°	3829.4	92.4
0°-90°	4142.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4142.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3348	
5°	3327	315
15°	3126	879
25°	2717	1218
35°	1043	732
45°	517	401
55°	316	285
65°	186	185
75°	93	99
85°	28	29
90°	0	



TEST NUMBER: P584512
CATALOG NUMBER: HCC8S40D010MB-HM82555827-81NDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	3348.4
2.5°	3342.2
5°	3326.8
7.5°	3289.6
10°	3233.9
12.5°	3181.3
15°	3125.5
17.5°	3054.4
20°	2967.7
22.5°	2862.5
25°	2717.1
27.5°	2488.1
30°	2141.5
32.5°	1569.0
35°	1042.9
37.5°	770.5
40°	653.0
42.5°	578.7
45°	516.8
47.5°	458.0
50°	405.4
52.5°	355.9
55°	315.7
57.5°	278.5
60°	244.4
62.5°	213.5
65°	185.6
67.5°	157.8
70°	136.1
72.5°	111.4
75°	92.8
77.5°	74.3
80°	55.7
82.5°	40.2
85°	27.8
87.5°	12.4
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)