

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: P584529

Luminaire Tested: **HCC8S40D010MW-HM82555830-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584529
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: HCC8S40D010MW-HM82555830-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

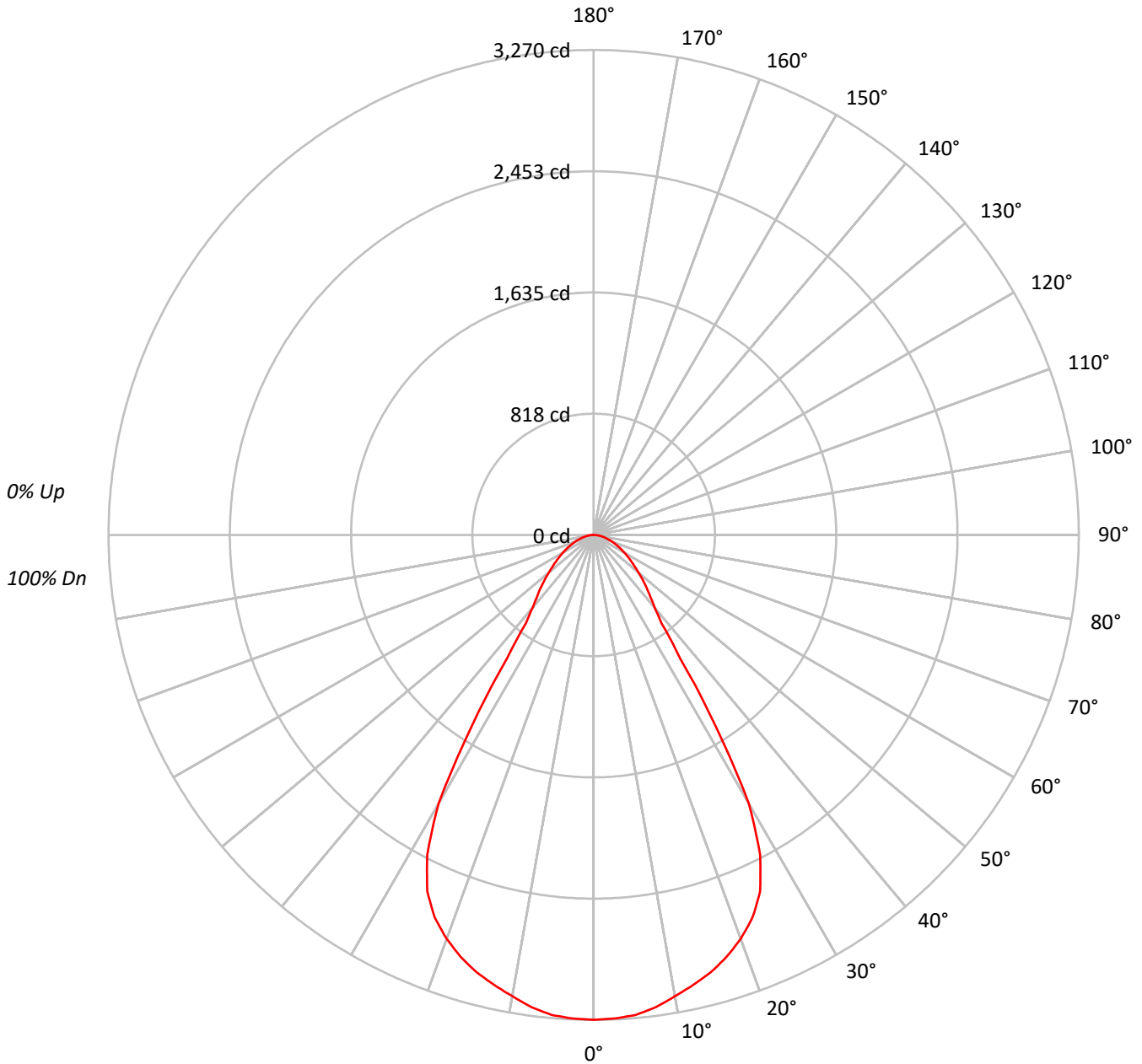
Lumens per Lamp: N/A
Luminaire Lumens: 4045.1 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P584529
CATALOG NUMBER: HCC8S40D010MW-HM82555830-81NDW

Luminous Intensity Polar Plot





TEST NUMBER: P584529

CATALOG NUMBER: HCC8S40D010MW-HM82555830-81NDW

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
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°	100829
5°	100558
10°	98880
15°	97439
20°	95099
25°	90273
30°	74461
35°	38337
40°	25666
45°	22010
50°	18992
55°	16569
60°	14721
65°	13236
70°	11982
75°	10806
80°	9660
85°	9659



TEST NUMBER: P584529
 CATALOG NUMBER: HCC8S40D010MW-HM82555830-81NDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.2	7.6
10°-20°	858.7	21.2
20°-30°	1189.8	29.4
30°-40°	714.6	17.7
40°-50°	391.2	9.7
50°-60°	277.9	6.9
60°-70°	180.4	4.5
70°-80°	96.4	2.4
80°-90°	28.8	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°	2355.7	58.2
0°-40°	3070.3	75.9
0°-60°	3739.4	92.4
0°-90°	4045.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4045.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3270	
5°	3249	307
15°	3052	859
25°	2653	1190
35°	1018	715
45°	505	391
55°	308	278
65°	181	180
75°	91	96
85°	27	29
90°	0	



TEST NUMBER: P584529
CATALOG NUMBER: HCC8S40D010MW-HM82555830-81NDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	3269.8
2.5°	3263.7
5°	3248.6
7.5°	3212.3
10°	3157.9
12.5°	3106.6
15°	3052.2
17.5°	2982.6
20°	2898.0
22.5°	2795.3
25°	2653.2
27.5°	2429.6
30°	2091.2
32.5°	1532.1
35°	1018.4
37.5°	752.4
40°	637.6
42.5°	565.1
45°	504.7
47.5°	447.2
50°	395.9
52.5°	347.5
55°	308.2
57.5°	272.0
60°	238.7
62.5°	208.5
65°	181.4
67.5°	154.1
70°	132.9
72.5°	108.8
75°	90.7
77.5°	72.5
80°	54.4
82.5°	39.3
85°	27.3
87.5°	12.1
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)