

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: P593764

Luminaire Tested: **HCC8S45D010MB-HM82555850-81PSMDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593764
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8S45D010MB-HM82555850-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

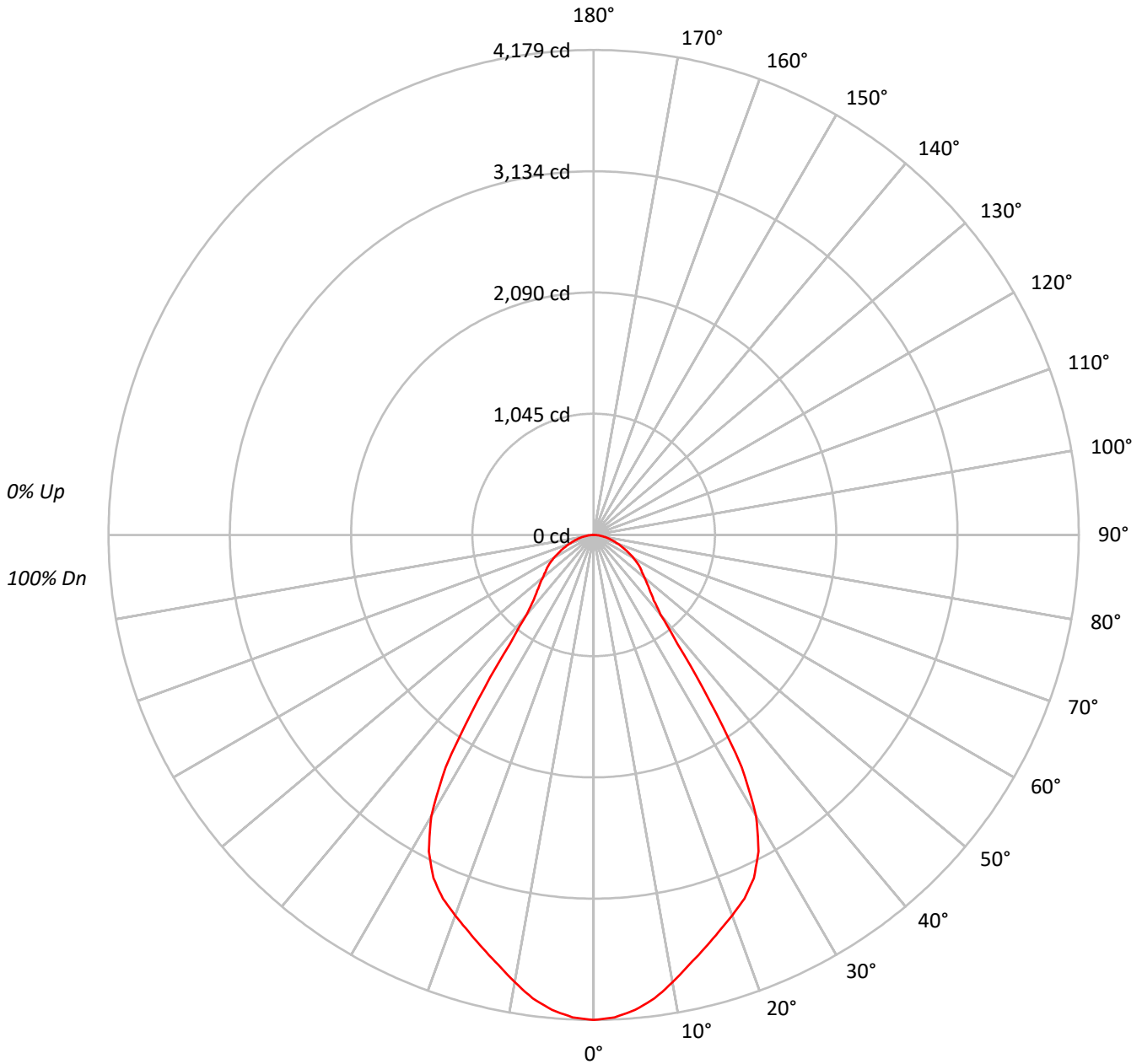
Lumens per Lamp: N/A
Luminaire Lumens: 5490.0 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P593764
CATALOG NUMBER: HCC8S45D010MB-HM82555850-81PSMDW

Luminous Intensity Polar Plot





TEST NUMBER: P593764
 CATALOG NUMBER: HCC8S45D010MB-HM82555850-81PSMDW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89																			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79																			
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64																			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58																			
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53																			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49																			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45																			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42																			
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	128871
5°	127190
10°	122530
15°	117739
20°	114483
25°	111038
30°	99642
35°	65316
40°	36112
45°	30103
50°	27450
55°	26198
60°	24367
65°	22094
70°	19970
75°	18026
80°	16391
85°	15674



TEST NUMBER: P593764
 CATALOG NUMBER: HCC8S45D010MB-HM82555850-81PSMDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.1	7.0
10°-20°	1040.5	19.0
20°-30°	1480.8	27.0
30°-40°	1096.0	20.0
40°-50°	542.8	9.9
50°-60°	433.2	7.9
60°-70°	300.8	5.5
70°-80°	162.1	3.0
80°-90°	47.7	0.9
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°	2907.4	53.0
0°-40°	4003.4	72.9
0°-60°	4979.4	90.7
0°-90°	5490.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5490.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4179	
5°	4109	386
15°	3688	1041
25°	3264	1481
35°	1735	1096
45°	690	543
55°	487	433
65°	303	301
75°	151	162
85°	44	48
90°	0	



TEST NUMBER: P593764
CATALOG NUMBER: HCC8S45D010MB-HM82555850-81PSMDW

CANDELA DISTRIBUTION (FULL):

0°	
0°	4179.2
2.5°	4160.6
5°	4109.0
7.5°	4027.7
10°	3913.2
12.5°	3795.1
15°	3688.1
17.5°	3584.7
20°	3488.7
22.5°	3392.8
25°	3263.5
27.5°	3075.3
30°	2798.4
32.5°	2373.8
35°	1735.1
37.5°	1185.1
40°	897.1
42.5°	767.8
45°	690.3
47.5°	627.6
50°	572.2
52.5°	524.2
55°	487.3
57.5°	443.0
60°	395.1
62.5°	347.0
65°	302.8
67.5°	258.4
70°	221.5
72.5°	184.6
75°	151.3
77.5°	121.9
80°	92.3
82.5°	66.5
85°	44.3
87.5°	18.4
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)