

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: P584734

Luminaire Tested: **HCC8S45D010MB-HM82555930-81PSMDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584734
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-HM82555930-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

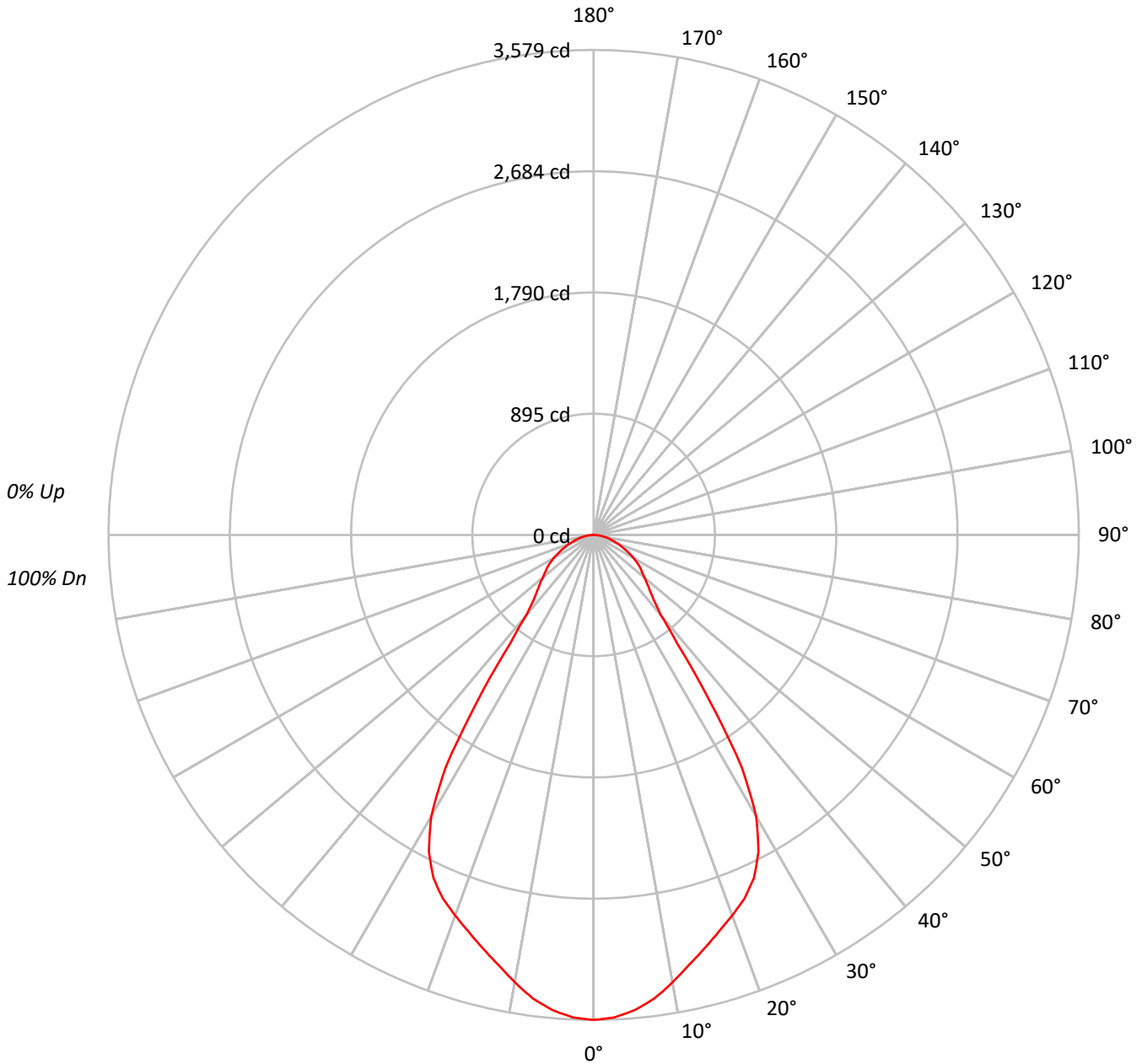
Lumens per Lamp: N/A
Luminaire Lumens: 4701.8 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P584734
CATALOG NUMBER: HCC8S45D010MB-HM82555930-81PSMDW

Luminous Intensity Polar Plot





TEST NUMBER: P584734
 CATALOG NUMBER: HCC8S45D010MB-HM82555930-81PSMDW

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	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°	110366
5°	108927
10°	104942
15°	100832
20°	98049
25°	95097
30°	85335
35°	55943
40°	30927
45°	25782
50°	23511
55°	22440
60°	20864
65°	18913
70°	17103
75°	15441
80°	14047
85°	13409



TEST NUMBER: P584734
 CATALOG NUMBER: HCC8S45D010MB-HM82555930-81PSMDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.6	7.0
10°-20°	891.1	19.0
20°-30°	1268.2	27.0
30°-40°	938.6	20.0
40°-50°	464.9	9.9
50°-60°	371.1	7.9
60°-70°	257.6	5.5
70°-80°	138.8	3.0
80°-90°	40.9	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°	2490.0	53.0
0°-40°	3428.6	72.9
0°-60°	4264.6	90.7
0°-90°	4701.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4701.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3579	
5°	3519	331
15°	3158	891
25°	2795	1268
35°	1486	939
45°	591	465
55°	417	371
65°	259	258
75°	130	139
85°	38	41
90°	0	



TEST NUMBER: P584734
CATALOG NUMBER: HCC8S45D010MB-HM82555930-81PSMDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	3579.1
2.5°	3563.3
5°	3519.0
7.5°	3449.4
10°	3351.5
12.5°	3250.3
15°	3158.5
17.5°	3070.1
20°	2987.9
22.5°	2905.6
25°	2795.0
27.5°	2633.7
30°	2396.6
32.5°	2033.0
35°	1486.1
37.5°	1014.9
40°	768.3
42.5°	657.7
45°	591.2
47.5°	537.5
50°	490.1
52.5°	449.0
55°	417.4
57.5°	379.5
60°	338.3
62.5°	297.2
65°	259.2
67.5°	221.3
70°	189.7
72.5°	158.1
75°	129.6
77.5°	104.3
80°	79.1
82.5°	56.9
85°	37.9
87.5°	15.8
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)