

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: P593775

Luminaire Tested: **HCC8S45D010MB-HM82555950-81WDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593775
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8S45D010MB-HM82555950-81WDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

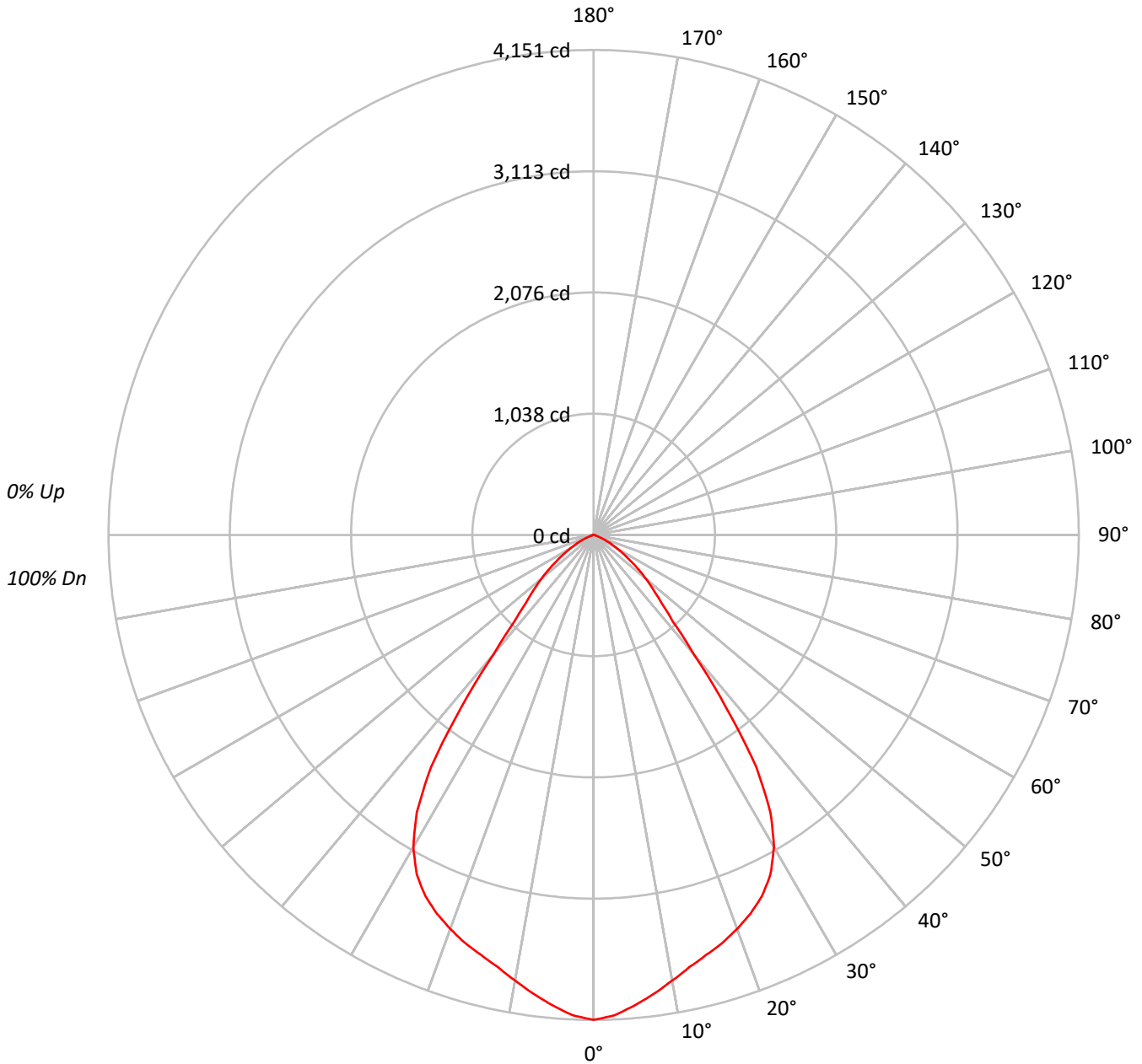
Lumens per Lamp: N/A
Luminaire Lumens: 5590.7 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P593775
CATALOG NUMBER: HCC8S45D010MB-HM82555950-81WDH

Luminous Intensity Polar Plot





TEST NUMBER: P593775

CATALOG NUMBER: HCC8S45D010MB-HM82555950-81WDH

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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75		
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68		
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62		
6	82	72	65	60	80	71	64	60	69	64	59	68	63	59	66	62	58	57		
7	77	67	60	55	76	66	59	55	64	59	54	63	58	54	62	57	54	52		
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48		
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44		
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	127992
5°	125107
10°	121271
15°	118818
20°	117751
25°	115992
30°	109875
35°	91291
40°	53763
45°	35559
50°	27992
55°	20596
60°	14302
65°	8719
70°	3805
75°	1680
80°	1243
85°	0



TEST NUMBER: P593775
 CATALOG NUMBER: HCC8S45D010MB-HM82555950-81WDH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.6	6.8
10°-20°	1052.2	18.8
20°-30°	1559.0	27.9
30°-40°	1440.6	25.8
40°-50°	664.2	11.9
50°-60°	349.4	6.2
60°-70°	123.5	2.2
70°-80°	19.4	0.3
80°-90°	1.9	0.0
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°	2991.8	53.5
0°-40°	4432.4	79.3
0°-60°	5445.9	97.4
0°-90°	5590.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5590.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4151	
5°	4042	381
15°	3722	1052
25°	3409	1559
35°	2425	1441
45°	815	664
55°	383	349
65°	120	123
75°	14	19
85°	0	2
90°	0	



TEST NUMBER: P593775
CATALOG NUMBER: HCC8S45D010MB-HM82555950-81WDH

CANDELA DISTRIBUTION (FULL):

0°	
0°	4150.7
2.5°	4115.5
5°	4041.7
7.5°	3960.9
10°	3873.0
12.5°	3788.7
15°	3721.9
17.5°	3662.1
20°	3588.3
22.5°	3507.5
25°	3409.1
27.5°	3275.6
30°	3085.8
32.5°	2815.2
35°	2425.1
37.5°	1862.7
40°	1335.6
42.5°	1001.6
45°	815.4
47.5°	692.4
50°	583.5
52.5°	478.0
55°	383.1
57.5°	302.3
60°	231.9
62.5°	175.7
65°	119.5
67.5°	70.3
70°	42.2
72.5°	24.6
75°	14.1
77.5°	10.6
80°	7.0
82.5°	3.5
85°	0.0
87.5°	0.0
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)