

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: P593777

Luminaire Tested: **HCC8W45D010BZ-HM82555950-81NDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593777
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W45D010BZ-HM82555950-81NDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

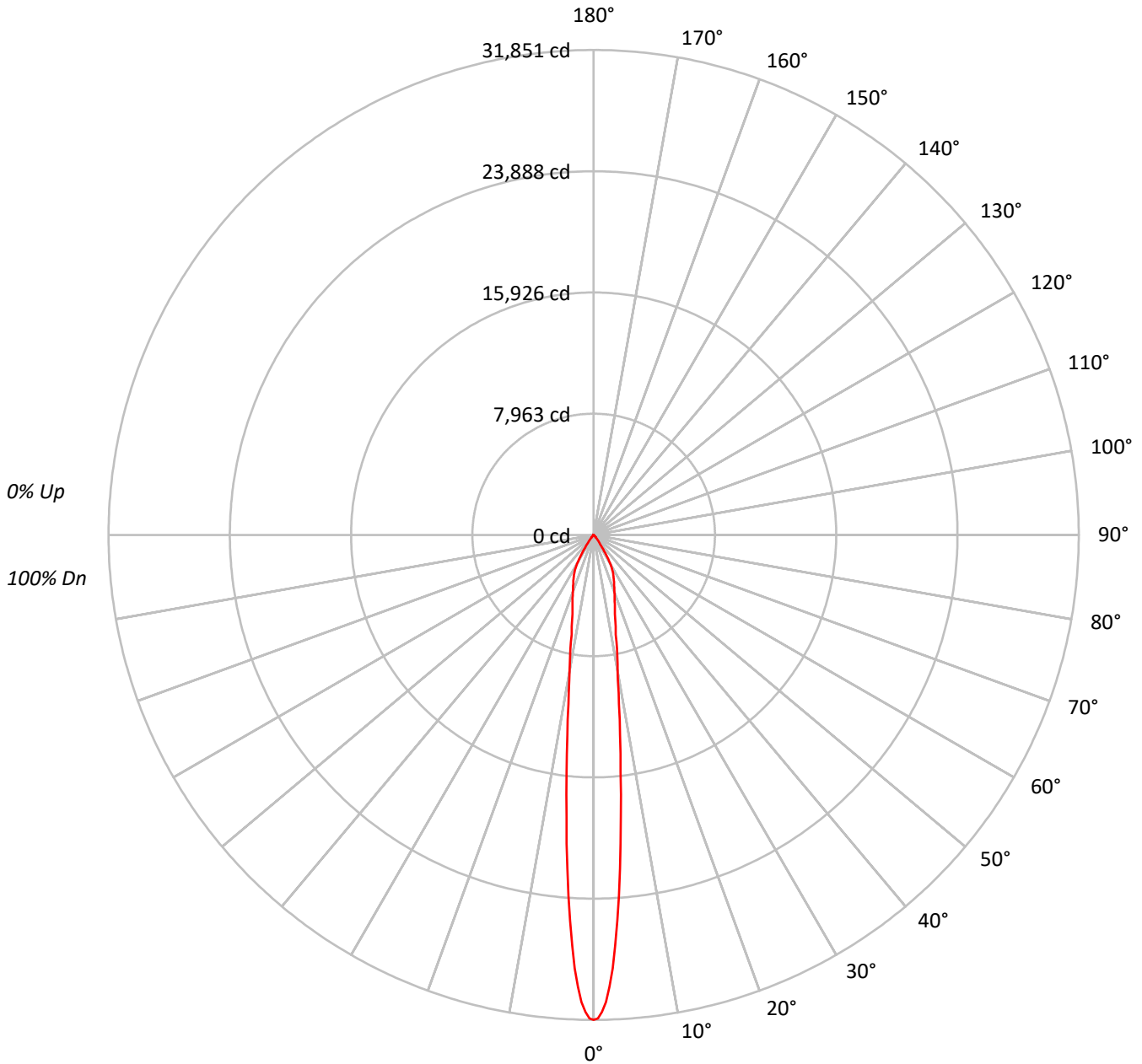
Lumens per Lamp: N/A
Luminaire Lumens: 5218.1 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.27
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P593777
CATALOG NUMBER: HCC8W45D010BZ-HM82555950-81NDC

Luminous Intensity Polar Plot





TEST NUMBER: P593777

CATALOG NUMBER: HCC8W45D010BZ-HM82555950-81NDC

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	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91
3	106	101	97	93	104	99	96	93	97	94	91	95	92	90	92	90	89	87
4	102	96	91	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83
5	98	92	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	76
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68
10	83	75	70	67	82	75	70	67	74	70	67	73	69	67	73	69	67	66

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	982161
5°	629978
10°	284582
15°	171710
20°	130851
25°	105665
30°	77430
35°	28041
40°	10462
45°	4749
50°	1521
55°	376
60°	216
65°	255
70°	0
75°	0
80°	622
85°	1238



TEST NUMBER: P593777
 CATALOG NUMBER: HCC8W45D010BZ-HM82555950-81NDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1552.2	29.7
10°-20°	1576.6	30.2
20°-30°	1411.3	27.0
30°-40°	568.5	10.9
40°-50°	93.2	1.8
50°-60°	8.5	0.2
60°-70°	3.0	0.1
70°-80°	2.3	0.0
80°-90°	3.3	0.1
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°	4540.1	87.0
0°-40°	5108.6	97.9
0°-60°	5210.3	99.9
0°-90°	5219.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5218.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	31851	
5°	20352	###
15°	5379	1577
25°	3106	1411
35°	745	568
45°	109	93
55°	7	8
65°	4	3
75°	0	2
85°	4	3
90°	0	



TEST NUMBER: P593777
CATALOG NUMBER: HCC8W45D010BZ-HM82555950-81NDC

CANDELA DISTRIBUTION (FULL):

0°	
0°	31850.8
0.5°	31752.4
1°	31341.4
1.5°	30680.9
2°	29679.6
2.5°	28495.7
3°	27013.1
3.5°	25386.5
4°	23777.4
4.5°	21975.1
5°	20352.0
5.5°	18584.9
6°	17151.5
6.5°	15658.4
7°	14485.0
7.5°	13244.8
8°	12247.1
8.5°	11245.8
9°	10494.0
9.5°	9664.8
10°	9088.6
12.5°	6703.2
15°	5378.7
17.5°	4595.2
20°	3987.5
22.5°	3502.7
25°	3105.6
27.5°	2708.7
30°	2174.6
32.5°	1398.2
35°	744.9
37.5°	411.0
40°	259.9
42.5°	172.2
45°	108.9
47.5°	66.7
50°	31.7
52.5°	10.6
55°	7.0
57.5°	3.5
60°	3.5
62.5°	3.5
65°	3.5



TEST NUMBER: P593777
CATALOG NUMBER: HCC8W45D010BZ-HM82555950-81NDC

CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	3.5
80°	3.5
82.5°	3.5
85°	3.5
87.5°	3.5
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



67.5°		3.5
70°		0.0

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)