

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: P584646

Luminaire Tested: **HCC8W45D010BZ-HM82555827-81NDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584646
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-HM82555827-81NDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

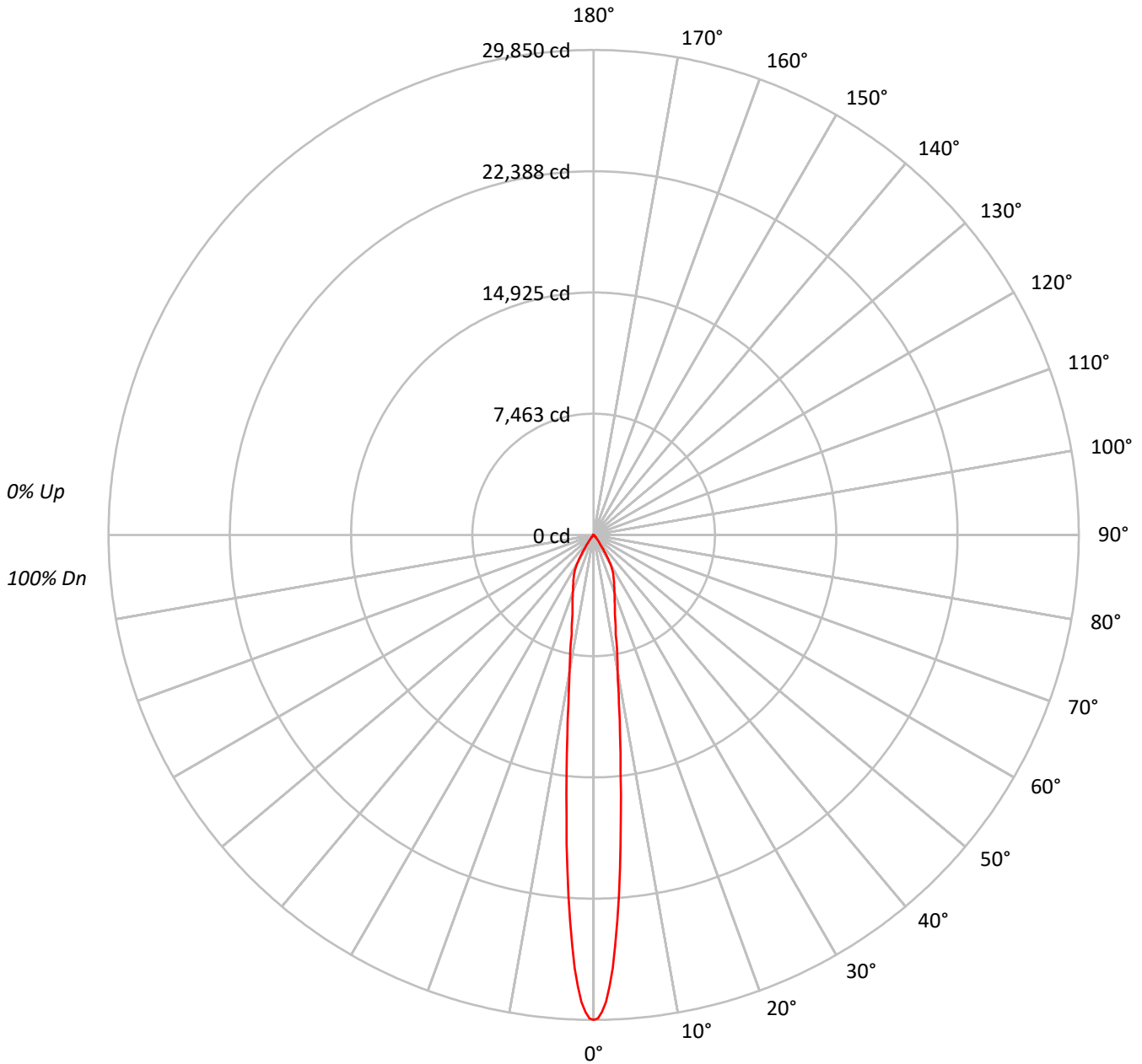
Lumens per Lamp: N/A
Luminaire Lumens: 4890.5 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.27
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P584646
CATALOG NUMBER: HCC8W45D010BZ-HM82555827-81NDC

Luminous Intensity Polar Plot





TEST NUMBER: P584646

CATALOG NUMBER: HCC8W45D010BZ-HM82555827-81NDC

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	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°	920479
5°	590415
10°	266713
15°	160929
20°	122634
25°	99034
30°	72570
35°	26279
40°	9806
45°	4452
50°	1425
55°	355
60°	204
65°	241
70°	0
75°	0
80°	586
85°	1168



TEST NUMBER: P584646
 CATALOG NUMBER: HCC8W45D010BZ-HM82555827-81NDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1454.7	29.7
10°-20°	1477.6	30.2
20°-30°	1322.7	27.0
30°-40°	532.8	10.9
40°-50°	87.4	1.8
50°-60°	8.0	0.2
60°-70°	2.9	0.1
70°-80°	2.2	0.0
80°-90°	3.1	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°	4255.0	87.0
0°-40°	4787.8	97.9
0°-60°	4883.2	99.9
0°-90°	4891.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4890.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	29850	
5°	19074	###
15°	5041	1478
25°	2911	1323
35°	698	533
45°	102	87
55°	7	8
65°	3	3
75°	0	2
85°	3	3
90°	0	



TEST NUMBER: P584646
CATALOG NUMBER: HCC8W45D010BZ-HM82555827-81NDC

CANDELA DISTRIBUTION (FULL):

	0°
0°	29850.5
0.5°	29758.3
1°	29373.1
1.5°	28754.1
2°	27815.7
2.5°	26706.0
3°	25316.6
3.5°	23792.2
4°	22284.2
4.5°	20595.1
5°	19073.9
5.5°	17417.8
6°	16074.3
6.5°	14675.1
7°	13575.2
7.5°	12413.0
8°	11477.9
8.5°	10539.5
9°	9834.9
9.5°	9057.9
10°	8517.9
12.5°	6282.2
15°	5041.0
17.5°	4306.7
20°	3737.1
22.5°	3282.6
25°	2910.7
27.5°	2538.6
30°	2038.1
32.5°	1310.5
35°	698.1
37.5°	385.2
40°	243.6
42.5°	161.3
45°	102.1
47.5°	62.5
50°	29.7
52.5°	9.9
55°	6.6
57.5°	3.3
60°	3.3
62.5°	3.3
65°	3.3



TEST NUMBER: P584646
CATALOG NUMBER: HCC8W45D010BZ-HM82555827-81NDC

CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	3.3
80°	3.3
82.5°	3.3
85°	3.3
87.5°	3.3
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°		3.3
70°		0.0

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

Scaled Data Report



(END OF REPORT)