

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: P585223

Luminaire Tested: **HCC8W80D010BZ-HM86080835-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585223
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W80D010BZ-HM86080835-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

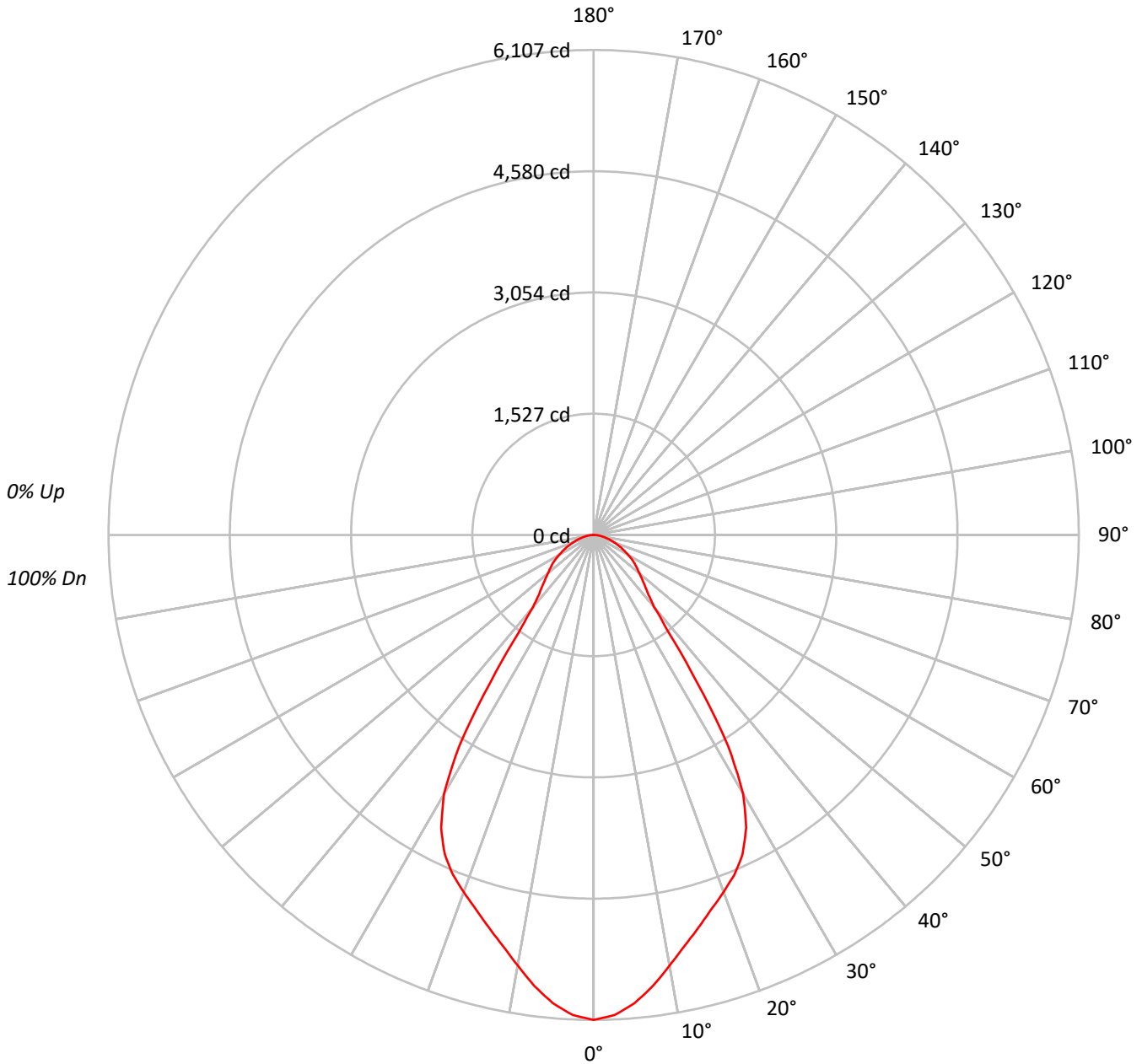
Lumens per Lamp: N/A
Luminaire Lumens: 7364.6 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 70
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: P585223
CATALOG NUMBER: HCC8W80D010BZ-HM86080835-81MDW

Luminous Intensity Polar Plot





TEST NUMBER: P585223
 CATALOG NUMBER: HCC8W80D010BZ-HM86080835-81MDW

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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92		90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82		80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74		72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67		65
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61		59
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56		54
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52		50
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48		46
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45		43
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42		40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	188311
5°	183183
10°	172376
15°	163202
20°	156992
25°	150928
30°	134041
35°	85366
40°	47641
45°	39907
50°	36028
55°	33956
60°	30972
65°	27946
70°	24659
75°	21934
80°	19427
85°	17584



TEST NUMBER: P585223
 CATALOG NUMBER: HCC8W80D010BZ-HM86080835-81MDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	551.7	7.5
10°-20°	1441.8	19.6
20°-30°	2011.4	27.3
30°-40°	1447.3	19.7
40°-50°	717.2	9.7
50°-60°	561.2	7.6
60°-70°	379.9	5.2
70°-80°	197.3	2.7
80°-90°	56.8	0.8
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°	4004.8	54.4
0°-40°	5452.1	74.0
0°-60°	6730.6	91.4
0°-90°	7364.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7364.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6107	
5°	5918	552
15°	5112	1442
25°	4436	2011
35°	2268	1447
45°	915	717
55°	632	561
65°	383	380
75°	184	197
85°	50	57
90°	0	



TEST NUMBER: P585223
CATALOG NUMBER: HCC8W80D010BZ-HM86080835-81MDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	6106.8
2.5°	6052.1
5°	5917.9
7.5°	5728.8
10°	5505.1
12.5°	5296.2
15°	5112.2
17.5°	4938.2
20°	4784.1
22.5°	4629.8
25°	4435.9
27.5°	4157.5
30°	3764.5
32.5°	3147.9
35°	2267.7
37.5°	1546.7
40°	1183.5
42.5°	1019.4
45°	915.1
47.5°	825.5
50°	751.0
52.5°	686.3
55°	631.6
57.5°	566.9
60°	502.2
62.5°	437.7
65°	383.0
67.5°	328.2
70°	273.5
72.5°	228.8
75°	184.1
77.5°	144.2
80°	109.4
82.5°	79.5
85°	49.7
87.5°	24.9
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)