

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: P593899

Luminaire Tested: **HCC8W80D010BZ-HM86080850-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593899
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W80D010BZ-HM86080850-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

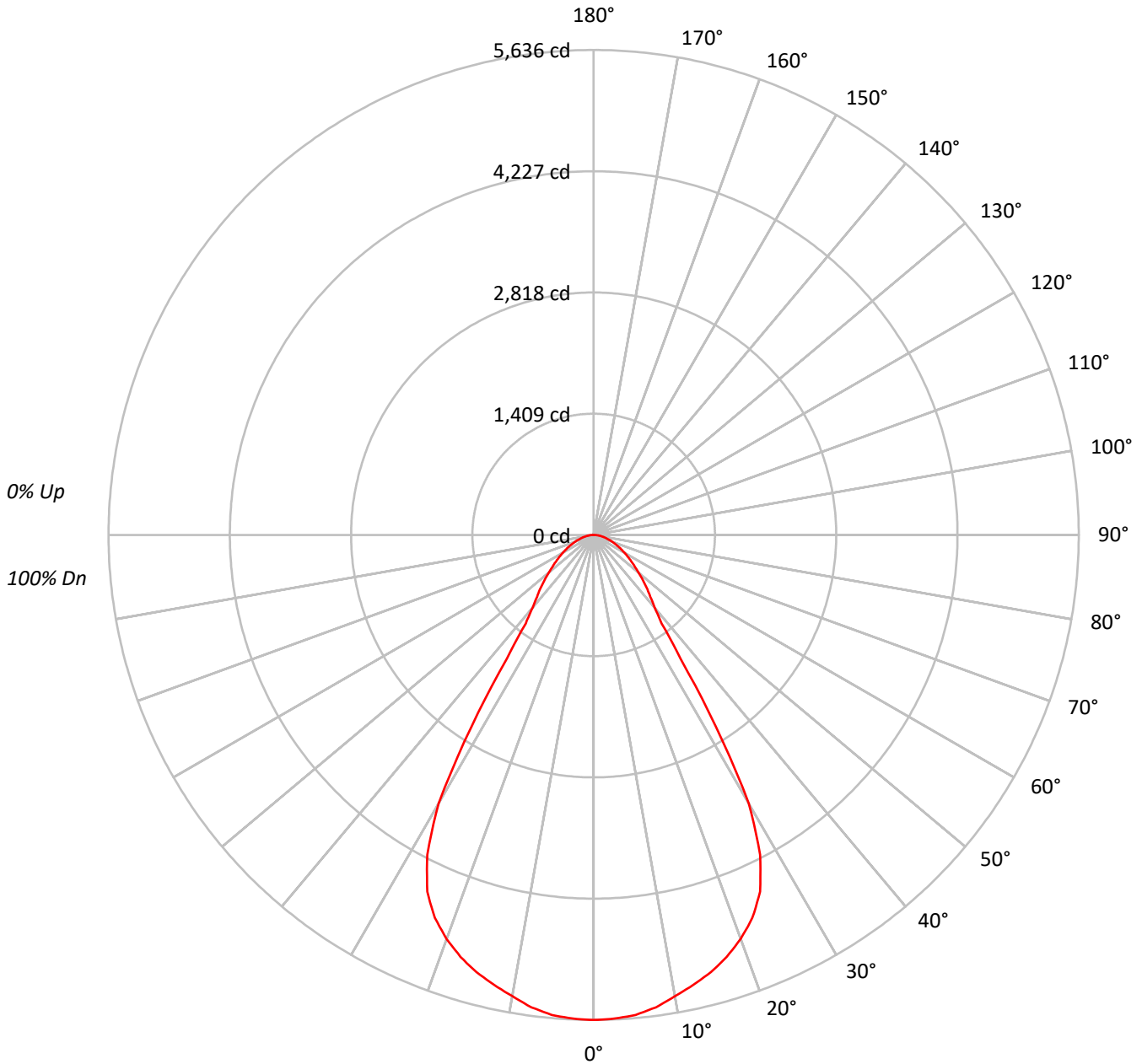
Lumens per Lamp: N/A
Luminaire Lumens: 6972.9 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 70
Input Voltage (V): NR
Input Current (Ain): 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: P593899
CATALOG NUMBER: HCC8W80D010BZ-HM86080850-81NDW

Luminous Intensity Polar Plot





TEST NUMBER: P593899

CATALOG NUMBER: HCC8W80D010BZ-HM86080850-81NDW

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	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	101	102	100	98	98	96	95	95	93	92	90			
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56			
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	173809
5°	173343
10°	170453
15°	167962
20°	163935
25°	155616
30°	128355
35°	66088
40°	44243
45°	37940
50°	32737
55°	28569
60°	25378
65°	22809
70°	20665
75°	18610
80°	16657
85°	16558



TEST NUMBER: P593899
 CATALOG NUMBER: HCC8W80D010BZ-HM86080850-81NDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.5	7.6
10°-20°	1480.3	21.2
20°-30°	2051.0	29.4
30°-40°	1231.9	17.7
40°-50°	674.4	9.7
50°-60°	479.1	6.9
60°-70°	311.0	4.5
70°-80°	166.2	2.4
80°-90°	49.6	0.7
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°	4060.7	58.2
0°-40°	5292.7	75.9
0°-60°	6446.1	92.4
0°-90°	6972.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6972.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5636	
5°	5600	529
15°	5261	1480
25°	4574	2051
35°	1756	1232
45°	870	674
55°	531	479
65°	313	311
75°	156	166
85°	47	50
90°	0	



TEST NUMBER: P593899

CATALOG NUMBER: HCC8W80D010BZ-HM86080850-81NDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	5636.5
2.5°	5626.0
5°	5600.0
7.5°	5537.4
10°	5443.7
12.5°	5355.1
15°	5261.3
17.5°	5141.6
20°	4995.7
22.5°	4818.5
25°	4573.7
27.5°	4188.3
30°	3604.8
32.5°	2641.1
35°	1755.6
37.5°	1297.1
40°	1099.1
42.5°	974.1
45°	870.0
47.5°	770.9
50°	682.4
52.5°	599.0
55°	531.4
57.5°	468.8
60°	411.5
62.5°	359.4
65°	312.6
67.5°	265.6
70°	229.2
72.5°	187.5
75°	156.2
77.5°	125.0
80°	93.8
82.5°	67.8
85°	46.8
87.5°	20.8
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)