

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: P585311

Luminaire Tested: **HCC8W80D010MW-HM86080940-81NDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585311  
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: HCC8W80D010MW-HM86080940-81NDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

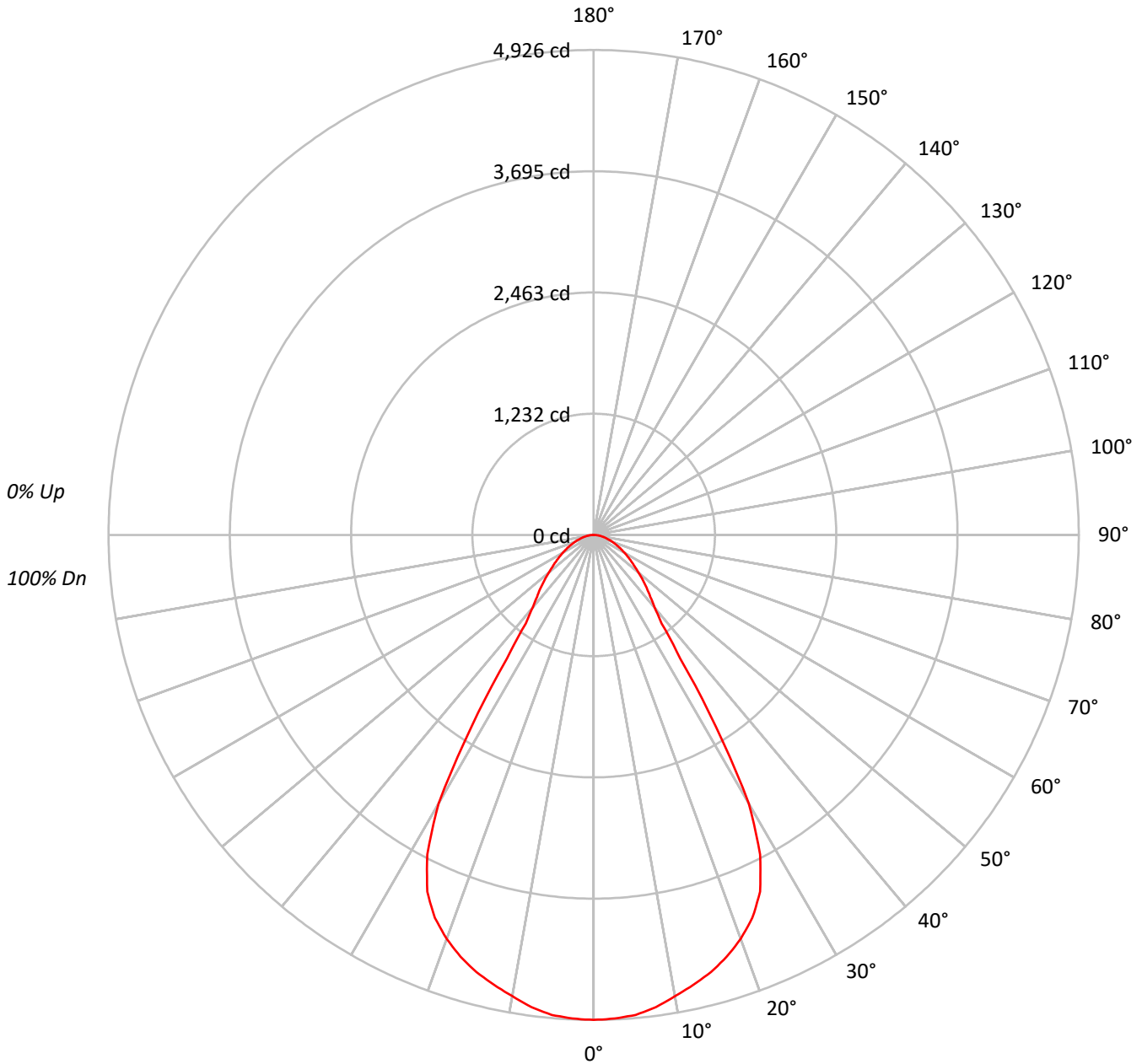
Lumens per Lamp: N/A  
Luminaire Lumens: 6094.0 lumens  
Efficiency: N/A  
Efficacy: 87.1 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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: P585311  
CATALOG NUMBER: HCC8W80D010MW-HM86080940-81NDW

### Luminous Intensity Polar Plot





TEST NUMBER: P585311

CATALOG NUMBER: HCC8W80D010MW-HM86080940-81NDW

**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			100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			90
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81			81
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73			73
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67			67
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			61
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56			56
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52			52
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			48
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45			45
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42			42

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	151900
5°	151496
10°	148967
15°	146793
20°	143272
25°	136001
30°	112179
35°	57757
40°	38668
45°	33152
50°	28611
55°	24967
60°	22184
65°	19927
70°	18059
75°	16275
80°	14544
85°	14506



TEST NUMBER: P585311  
 CATALOG NUMBER: HCC8W80D010MW-HM86080940-81NDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	462.7	7.6
10°-20°	1293.7	21.2
20°-30°	1792.5	29.4
30°-40°	1076.7	17.7
40°-50°	589.4	9.7
50°-60°	418.7	6.9
60°-70°	271.8	4.5
70°-80°	145.2	2.4
80°-90°	43.4	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°	3548.9	58.2
0°-40°	4625.6	75.9
0°-60°	5633.6	92.4
0°-90°	6094.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6094.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4926	
5°	4894	463
15°	4598	1294
25°	3997	1792
35°	1534	1077
45°	760	589
55°	464	419
65°	273	272
75°	137	145
85°	41	43
90°	0	



TEST NUMBER: P585311  
CATALOG NUMBER: HCC8W80D010MW-HM86080940-81NDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4926.0
2.5°	4916.9
5°	4894.2
7.5°	4839.5
10°	4757.5
12.5°	4680.1
15°	4598.2
17.5°	4493.5
20°	4366.0
22.5°	4211.2
25°	3997.2
27.5°	3660.3
30°	3150.5
32.5°	2308.2
35°	1534.3
37.5°	1133.6
40°	960.6
42.5°	851.3
45°	760.2
47.5°	673.8
50°	596.4
52.5°	523.5
55°	464.4
57.5°	409.7
60°	359.7
62.5°	314.1
65°	273.1
67.5°	232.2
70°	200.3
72.5°	163.8
75°	136.6
77.5°	109.3
80°	81.9
82.5°	59.2
85°	41.0
87.5°	18.2
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)