

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: P585215

Luminaire Tested: **HCC8W80D010SL-HM86080830-81WDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585215  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W80D010SL-HM86080830-81WDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

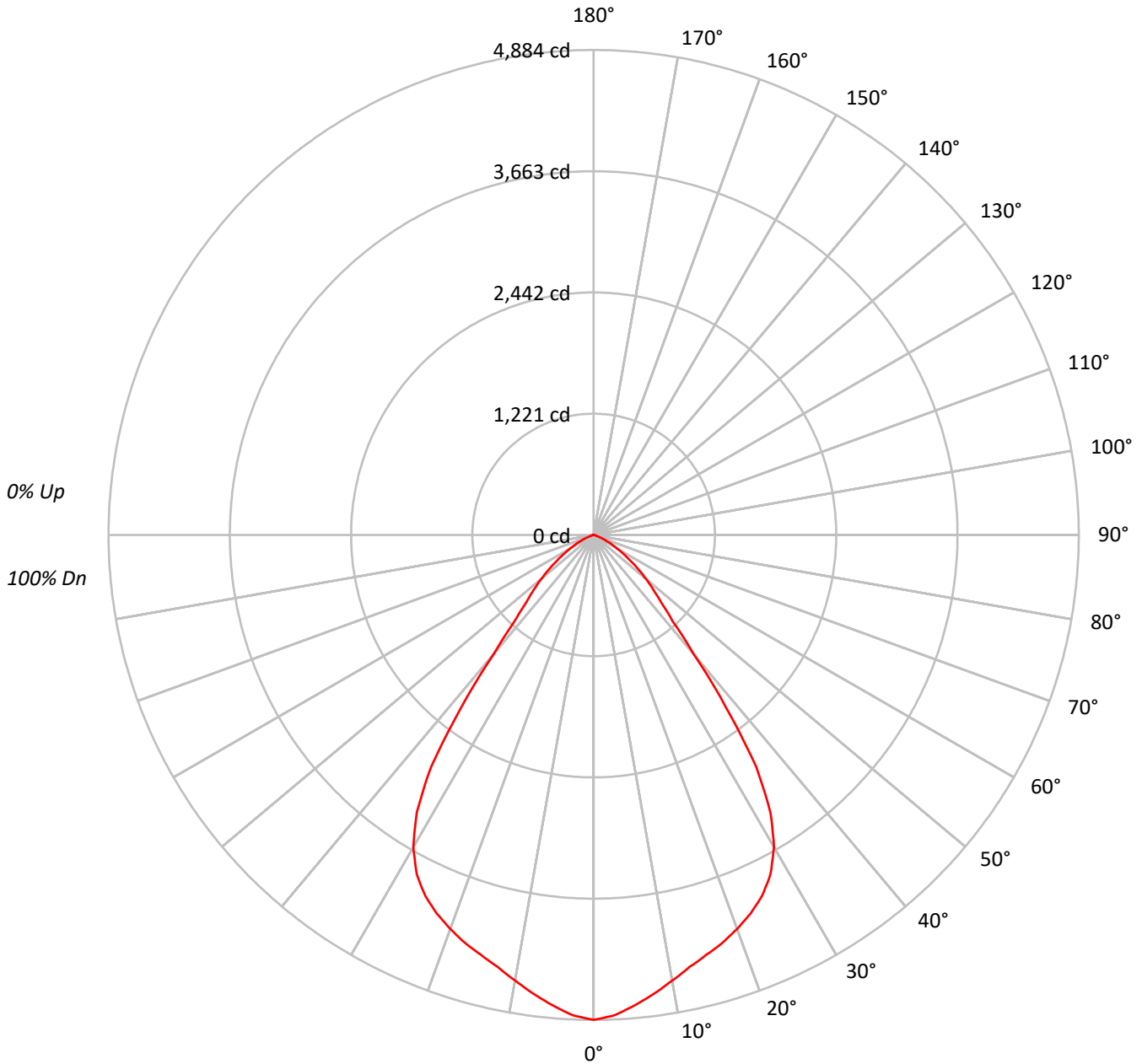
Lumens per Lamp: N/A  
Luminaire Lumens: 6578.0 lumens  
Efficiency: N/A  
Efficacy: 94.0 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 70  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P585215  
CATALOG NUMBER: HCC8W80D010SL-HM86080830-81WDH

### Luminous Intensity Polar Plot





TEST NUMBER: P585215  
 CATALOG NUMBER: HCC8W80D010SL-HM86080830-81WDH

**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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62
6	82	72	65	60	80	71	64	60	69	64	59	68	63	59	66	62	58	57
7	77	67	60	55	76	66	59	55	64	59	54	63	58	54	62	57	54	52
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41

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

	0°
0°	150595
5°	147202
10°	142692
15°	139802
20°	138550
25°	136478
30°	129277
35°	107414
40°	63255
45°	41839
50°	32929
55°	24230
60°	16830
65°	10252
70°	4472
75°	1966
80°	1474
85°	0



TEST NUMBER: P585215  
 CATALOG NUMBER: HCC8W80D010SL-HM86080830-81WDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	447.8	6.8
10°-20°	1238.1	18.8
20°-30°	1834.3	27.9
30°-40°	1695.0	25.8
40°-50°	781.5	11.9
50°-60°	411.0	6.2
60°-70°	145.3	2.2
70°-80°	22.8	0.3
80°-90°	2.3	0.0
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°	3520.2	53.5
0°-40°	5215.1	79.3
0°-60°	6407.7	97.4
0°-90°	6578.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6578.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4884	
5°	4756	448
15°	4379	1238
25°	4011	1834
35°	2853	1695
45°	959	782
55°	451	411
65°	140	145
75°	16	23
85°	0	2
90°	0	



TEST NUMBER: P585215  
CATALOG NUMBER: HCC8W80D010SL-HM86080830-81WDH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4883.7
2.5°	4842.3
5°	4755.5
7.5°	4660.4
10°	4557.1
12.5°	4457.8
15°	4379.2
17.5°	4308.9
20°	4222.1
22.5°	4127.0
25°	4011.2
27.5°	3854.0
30°	3630.7
32.5°	3312.3
35°	2853.4
37.5°	2191.7
40°	1571.4
42.5°	1178.5
45°	959.4
47.5°	814.7
50°	686.4
52.5°	562.4
55°	450.7
57.5°	355.6
60°	272.9
62.5°	206.8
65°	140.5
67.5°	82.8
70°	49.6
72.5°	28.9
75°	16.5
77.5°	12.4
80°	8.3
82.5°	4.2
85°	0.0
87.5°	0.0
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)