

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: P585193

Luminaire Tested: **HCC8W80D010BZ-HM86080827-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585193  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8W80D010BZ-HM86080827-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

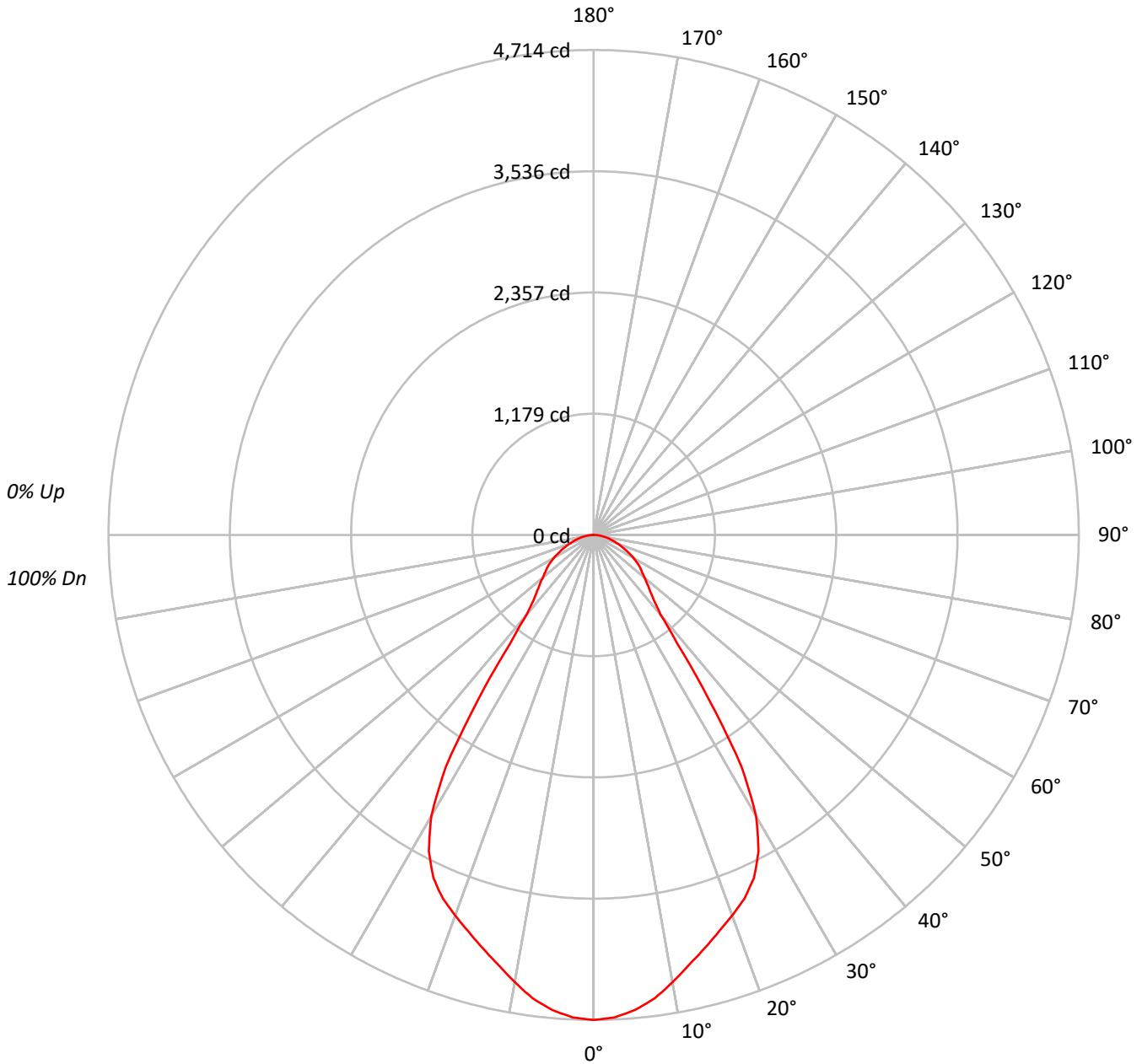
Lumens per Lamp: N/A  
Luminaire Lumens: 6192.8 lumens  
Efficiency: N/A  
Efficacy: 88.5 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

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: P585193  
CATALOG NUMBER: HCC8W80D010BZ-HM86080827-81PSMDW

### Luminous Intensity Polar Plot





TEST NUMBER: P585193  
 CATALOG NUMBER: HCC8W80D010BZ-HM86080827-81PSMDW

**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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89		
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79		
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71		
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64		
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58		
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53		
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49		
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45		
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42		
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39		

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

	0°
0°	145365
5°	143472
10°	138221
15°	132814
20°	129141
25°	125256
30°	112400
35°	73681
40°	40737
45°	33963
50°	30966
55°	29553
60°	27481
65°	24918
70°	22522
75°	20338
80°	18504
85°	17655



TEST NUMBER: P585193  
 CATALOG NUMBER: HCC8W80D010BZ-HM86080827-81PSMDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	435.5	7.0
10°-20°	1173.7	19.0
20°-30°	1670.4	27.0
30°-40°	1236.3	20.0
40°-50°	612.3	9.9
50°-60°	488.7	7.9
60°-70°	339.2	5.5
70°-80°	182.8	3.0
80°-90°	53.8	0.9
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°	3279.6	53.0
0°-40°	4516.0	72.9
0°-60°	5617.0	90.7
0°-90°	6192.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6192.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4714	
5°	4635	435
15°	4160	1174
25°	3681	1670
35°	1957	1236
45°	779	612
55°	550	489
65°	342	339
75°	171	183
85°	50	54
90°	0	



TEST NUMBER: P585193  
CATALOG NUMBER: HCC8W80D010BZ-HM86080827-81PSMDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4714.1
2.5°	4693.3
5°	4635.0
7.5°	4543.4
10°	4414.3
12.5°	4281.0
15°	4160.3
17.5°	4043.7
20°	3935.4
22.5°	3827.2
25°	3681.4
27.5°	3468.9
30°	3156.7
32.5°	2677.7
35°	1957.3
37.5°	1336.8
40°	1012.0
42.5°	866.2
45°	778.8
47.5°	707.9
50°	645.5
52.5°	591.3
55°	549.7
57.5°	499.7
60°	445.6
62.5°	391.4
65°	341.5
67.5°	291.5
70°	249.8
72.5°	208.2
75°	170.7
77.5°	137.4
80°	104.2
82.5°	74.9
85°	49.9
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)