

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: P584041

Luminaire Tested: **HCC8S20D010MW-HM80520927-81WDC**

Issue Date: 10/21/2021

### Test Information

Test Method: LM-41-14  
 Report Number: P584041  
 TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-7)  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Issue Date: 10/21/2021  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: HALO COMMERCIAL  
 Catalog Number: HCC8S20D010MW-HM80520927-81WDC  
 Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, SPECULAR TRIM  
 Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER  
 Ballast/Driver: ELECTRONIC DRIVER

### Summary

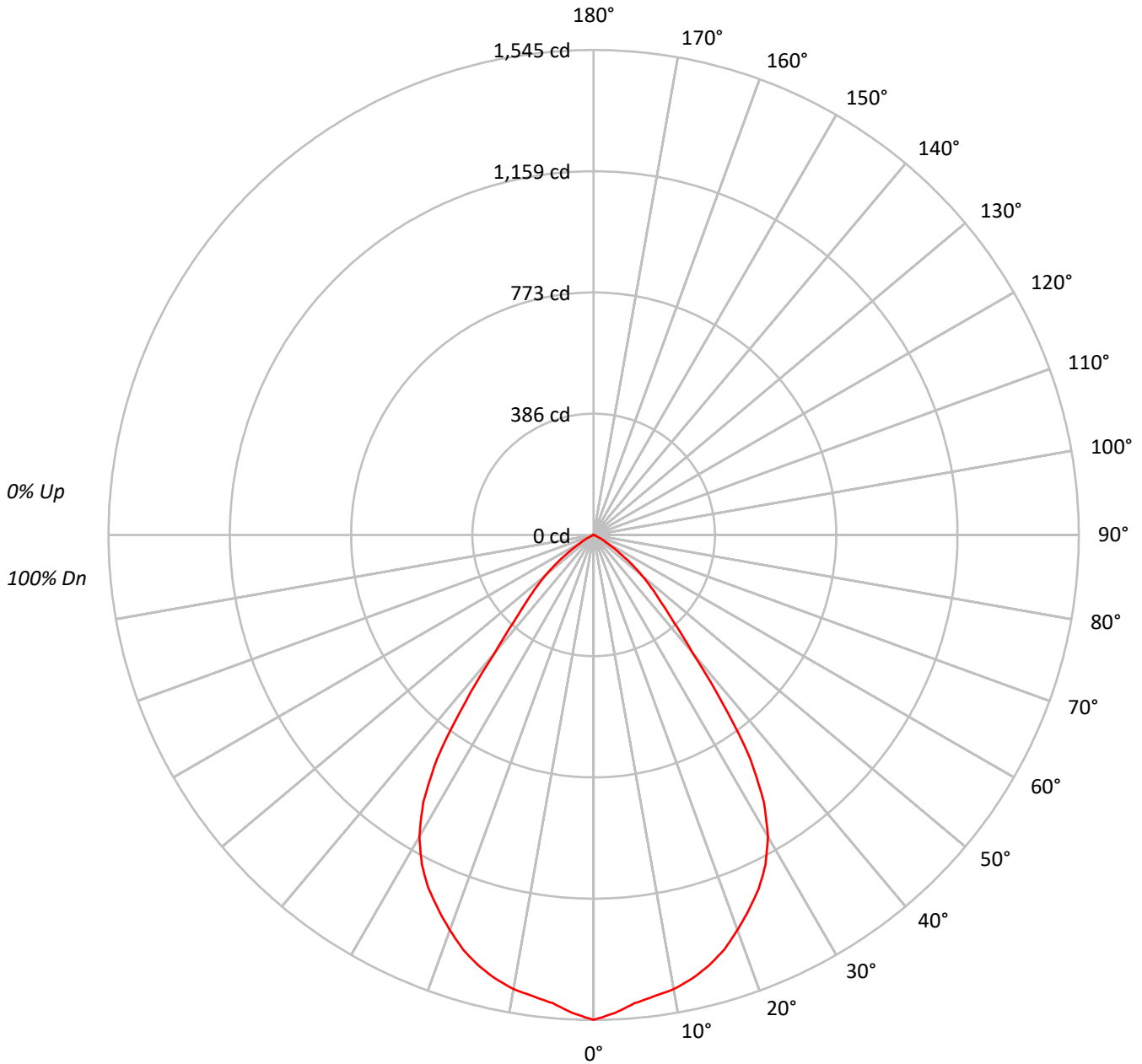
Lumens per Lamp: N/A  
 Luminaire Lumens: 1985.7 lumens  
 Efficiency: N/A  
 Efficacy: 99.3 lumens/watt  
 Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.05  
 Luminous Opening: Circular (Dia: 0.67' x H: 0')  
 CIE Type: Direct

Input Watts (W): 20  
 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: P584041  
CATALOG NUMBER: HCC8S20D010MW-HM80520927-81WDC

### Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab  
 1121 Highway 74 South  
 Peachtree City, GA 30269



TEST NUMBER: P584041

CATALOG NUMBER: HCC8S20D010MW-HM80520927-81WDC

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									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	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	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92																												
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84																												
3	100	93	87	83	98	91	86	82	89	84	81	86	83	79	84	81	78	77																												
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	71	70																												
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64																												
6	83	73	66	62	82	72	66	61	71	65	61	69	64	61	68	64	60	59																												
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	63	59	55	54																												
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50																												
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46																												
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43																												

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

	0°
0°	47642
5°	46360
10°	46007
15°	45323
20°	43950
25°	42312
30°	39523
35°	32709
40°	19745
45°	13301
50°	9585
55°	5468
60°	2405
65°	861
70°	316
75°	143
80°	0
85°	0



TEST NUMBER: P584041  
 CATALOG NUMBER: HCC8S20D010MW-HM80520927-81WDC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.3	7.2
10°-20°	399.0	20.1
20°-30°	569.2	28.7
30°-40°	518.3	26.1
40°-50°	244.5	12.3
50°-60°	96.1	4.8
60°-70°	15.3	0.8
70°-80°	1.1	0.1
80°-90°	0.0	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°	1110.4	55.9
0°-40°	1628.7	82.0
0°-60°	1969.4	99.2
0°-90°	1985.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1985.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1545	
5°	1498	142
15°	1420	399
25°	1244	569
35°	869	518
45°	305	244
55°	102	96
65°	12	15
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P584041  
CATALOG NUMBER: HCC8S20D010MW-HM80520927-81WDC

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1545.0
2.5°	1524.9
5°	1497.7
7.5°	1482.3
10°	1469.3
12.5°	1448.1
15°	1419.7
17.5°	1384.2
20°	1339.3
22.5°	1292.0
25°	1243.6
27.5°	1184.5
30°	1110.0
32.5°	1009.5
35°	868.9
37.5°	671.5
40°	490.5
42.5°	377.1
45°	305.0
47.5°	250.6
50°	199.8
52.5°	150.1
55°	101.7
57.5°	63.8
60°	39.0
62.5°	23.6
65°	11.8
67.5°	5.9
70°	3.5
72.5°	1.2
75°	1.2
77.5°	0.0
80°	0.0
82.5°	0.0
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)