

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: P583887

Luminaire Tested: **HCC8S15D010MB-HM80520840-81NDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583887  
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: HCC8S15D010MB-HM80520840-81NDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

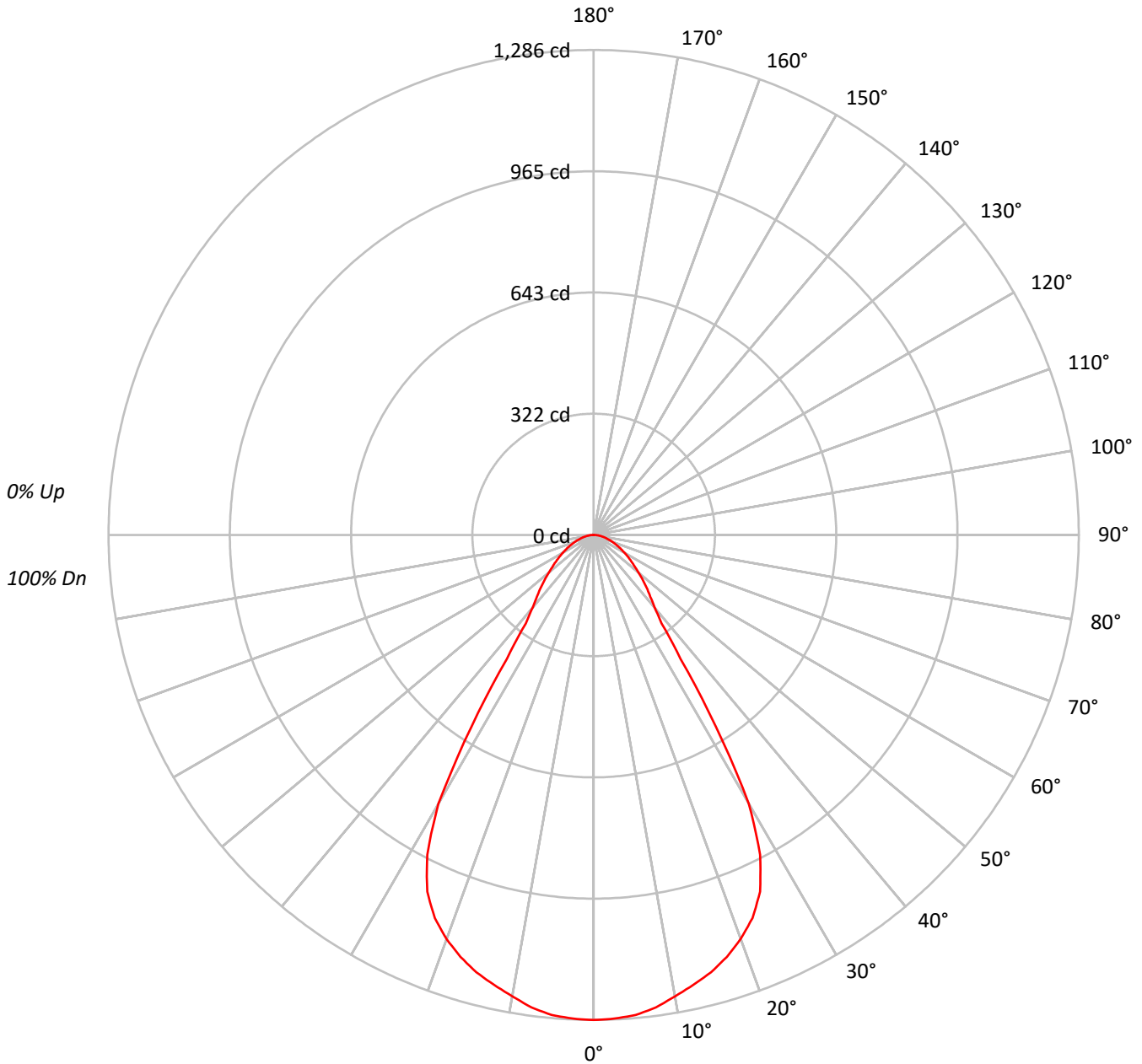
Lumens per Lamp: N/A  
Luminaire Lumens: 1591.2 lumens  
Efficiency: N/A  
Efficacy: 113.7 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 14  
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: P583887  
CATALOG NUMBER: HCC8S15D010MB-HM80520840-81NDW

### Luminous Intensity Polar Plot





TEST NUMBER: P583887  
 CATALOG NUMBER: HCC8S15D010MB-HM80520840-81NDW

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

RF	20									20									20									20																	
RC	80									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	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°	39662
5°	39556
10°	38896
15°	38331
20°	37413
25°	35514
30°	29294
35°	15084
40°	10100
45°	8656
50°	7469
55°	6516
60°	5791
65°	5202
70°	4715
75°	4253
80°	3800
85°	3786



TEST NUMBER: P583887  
 CATALOG NUMBER: HCC8S15D010MB-HM80520840-81NDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.8	7.6
10°-20°	337.8	21.2
20°-30°	468.1	29.4
30°-40°	281.1	17.7
40°-50°	153.9	9.7
50°-60°	109.3	6.9
60°-70°	71.0	4.5
70°-80°	38.0	2.4
80°-90°	11.3	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°	926.7	58.2
0°-40°	1207.8	75.9
0°-60°	1471.0	92.4
0°-90°	1591.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1591.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1286	
5°	1278	121
15°	1201	338
25°	1044	468
35°	401	281
45°	198	154
55°	121	109
65°	71	71
75°	36	38
85°	11	11
90°	0	



TEST NUMBER: P583887  
CATALOG NUMBER: HCC8S15D010MB-HM80520840-81NDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1286.2
2.5°	1283.8
5°	1277.9
7.5°	1263.7
10°	1242.2
12.5°	1222.0
15°	1200.7
17.5°	1173.3
20°	1140.1
22.5°	1099.6
25°	1043.8
27.5°	955.8
30°	822.7
32.5°	602.7
35°	400.7
37.5°	295.9
40°	250.9
42.5°	222.3
45°	198.5
47.5°	175.9
50°	155.7
52.5°	136.6
55°	121.2
57.5°	107.0
60°	93.9
62.5°	82.1
65°	71.3
67.5°	60.6
70°	52.3
72.5°	42.8
75°	35.7
77.5°	28.6
80°	21.4
82.5°	15.4
85°	10.7
87.5°	4.7
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)