

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: P580411

Luminaire Tested: **HCC4W35D010MB-HM43040827-41WDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580411  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W35D010MB-HM43040827-41WDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

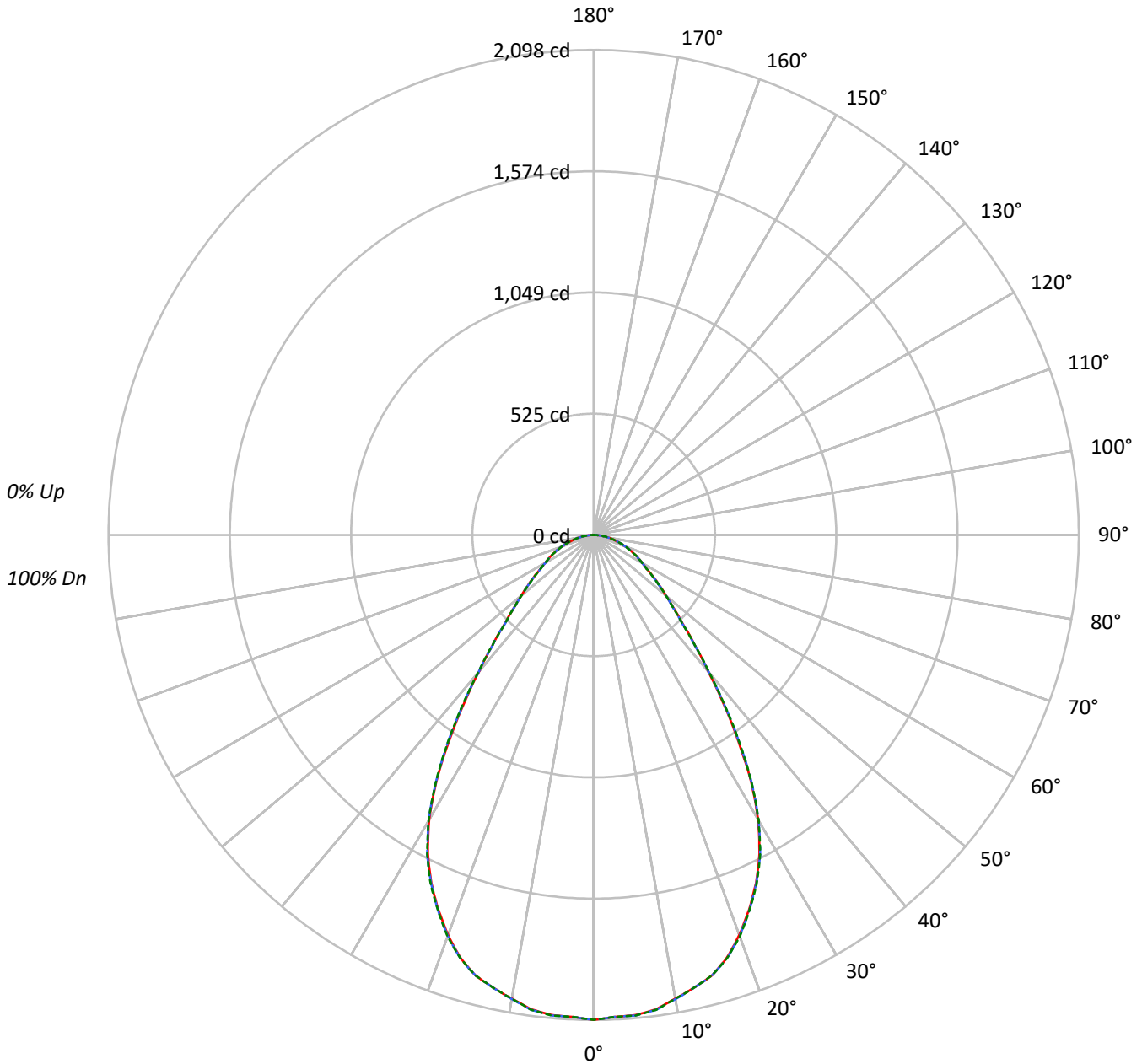
Lumens per Lamp: N/A  
Luminaire Lumens: 3236.7 lumens  
Efficiency: N/A  
Efficacy: 96.0 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.7  
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: P580411  
CATALOG NUMBER: HCC4W35D010MB-HM43040827-41WDW

### Luminous Intensity Polar Plot



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



TEST NUMBER: P580411

CATALOG NUMBER: HCC4W35D010MB-HM43040827-41WDW

**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	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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89					89			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78					78			
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69					69			
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	68	64	62					62			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56					56			
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51					51			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46					46			
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42					42			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39					39			
10	61	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36					36			

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

	0°	45°	90°
0°	258754	258754	258754
5°	258133	258393	258393
10°	255131	255407	255131
15°	252073	252073	252073
20°	241732	242283	242585
25°	226098	226397	226982
30°	202589	203215	203215
35°	164475	165801	166117
40°	124144	124820	125190
45°	95068	94702	94702
50°	78330	77927	77927
55°	67245	66793	66793
60°	59995	59477	59477
65°	56417	56417	56417
70°	52437	52437	52437
75°	47609	48658	47609
80°	44679	43187	44679
85°	36938	36938	36938



TEST NUMBER: P580411  
 CATALOG NUMBER: HCC4W35D010MB-HM43040827-41WDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	197.7	6.1
10°-20°	553.1	17.1
20°-30°	760.1	23.5
30°-40°	683.4	21.1
40°-50°	431.8	13.3
50°-60°	281.9	8.7
60°-70°	191.0	5.9
70°-80°	107.5	3.3
80°-90°	30.2	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°	1510.8	46.7
0°-40°	2194.2	67.8
0°-60°	2907.9	89.8
0°-90°	3236.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3236.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2098	2098	2098	2098	2098	
5°	2085	2085	2087	2087	2087	198
15°	1974	1974	1974	1974	1974	553
25°	1661	1664	1664	1668	1668	758
35°	1092	1097	1101	1105	1103	680
45°	545	543	543	543	543	432
55°	313	313	311	313	311	283
65°	193	193	193	193	193	192
75°	100	102	102	102	100	107
85°	26	26	26	26	26	30
90°	0	0	0	0	0	



TEST NUMBER: P580411

CATALOG NUMBER: HCC4W35D010MB-HM43040827-41WDW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2097.8	2097.8	2097.8	2097.8	2097.8
2.5°	2086.9	2086.9	2086.9	2086.9	2086.9
5°	2084.8	2084.8	2086.9	2086.9	2086.9
7.5°	2069.5	2071.8	2071.8	2071.8	2071.8
10°	2037.0	2037.0	2039.2	2039.2	2037.0
12.5°	2006.6	2006.6	2006.6	2008.7	2006.6
15°	1974.0	1974.0	1974.0	1974.0	1974.0
17.5°	1917.5	1919.7	1919.7	1919.7	1919.7
20°	1841.6	1845.8	1845.8	1848.1	1848.1
22.5°	1754.7	1756.8	1759.1	1761.2	1759.1
25°	1661.3	1663.5	1663.5	1667.8	1667.8
27.5°	1552.7	1554.9	1559.2	1559.2	1559.2
30°	1422.4	1424.6	1426.8	1426.8	1426.8
32.5°	1268.2	1268.2	1272.6	1274.7	1272.6
35°	1092.3	1096.7	1101.1	1105.3	1103.2
37.5°	925.2	929.4	931.7	931.7	933.8
40°	771.0	775.2	775.2	779.6	777.5
42.5°	649.3	647.2	647.2	651.5	649.3
45°	545.0	542.9	542.9	542.9	542.9
47.5°	469.0	466.9	466.9	466.9	466.9
50°	408.2	406.1	406.1	406.1	406.1
52.5°	358.3	356.2	356.2	356.2	353.9
55°	312.7	312.7	310.6	312.7	310.6
57.5°	271.4	271.4	271.4	271.4	271.4
60°	243.2	241.1	241.1	241.1	241.1
62.5°	217.2	217.2	217.2	217.2	217.2
65°	193.3	193.3	193.3	193.3	193.3
67.5°	169.4	167.3	169.4	169.4	167.3
70°	145.4	143.3	145.4	145.4	145.4
72.5°	121.6	121.6	121.6	123.8	121.6
75°	99.9	102.1	102.1	102.1	99.9
77.5°	80.4	82.5	80.4	80.4	80.4
80°	62.9	60.8	60.8	60.8	62.9
82.5°	43.4	43.4	43.4	43.4	43.4
85°	26.1	26.1	26.1	26.1	26.1
87.5°	10.9	10.9	10.9	10.9	10.9
90°	0.0	0.0	0.0	0.0	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°    - - 45°-225°    - - - - 90°-270°

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)