

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: P580128

Luminaire Tested: **HCC4W25D010MB-HM40525827-41WWWB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580128  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W25D010MB-HM40525827-41WWWB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

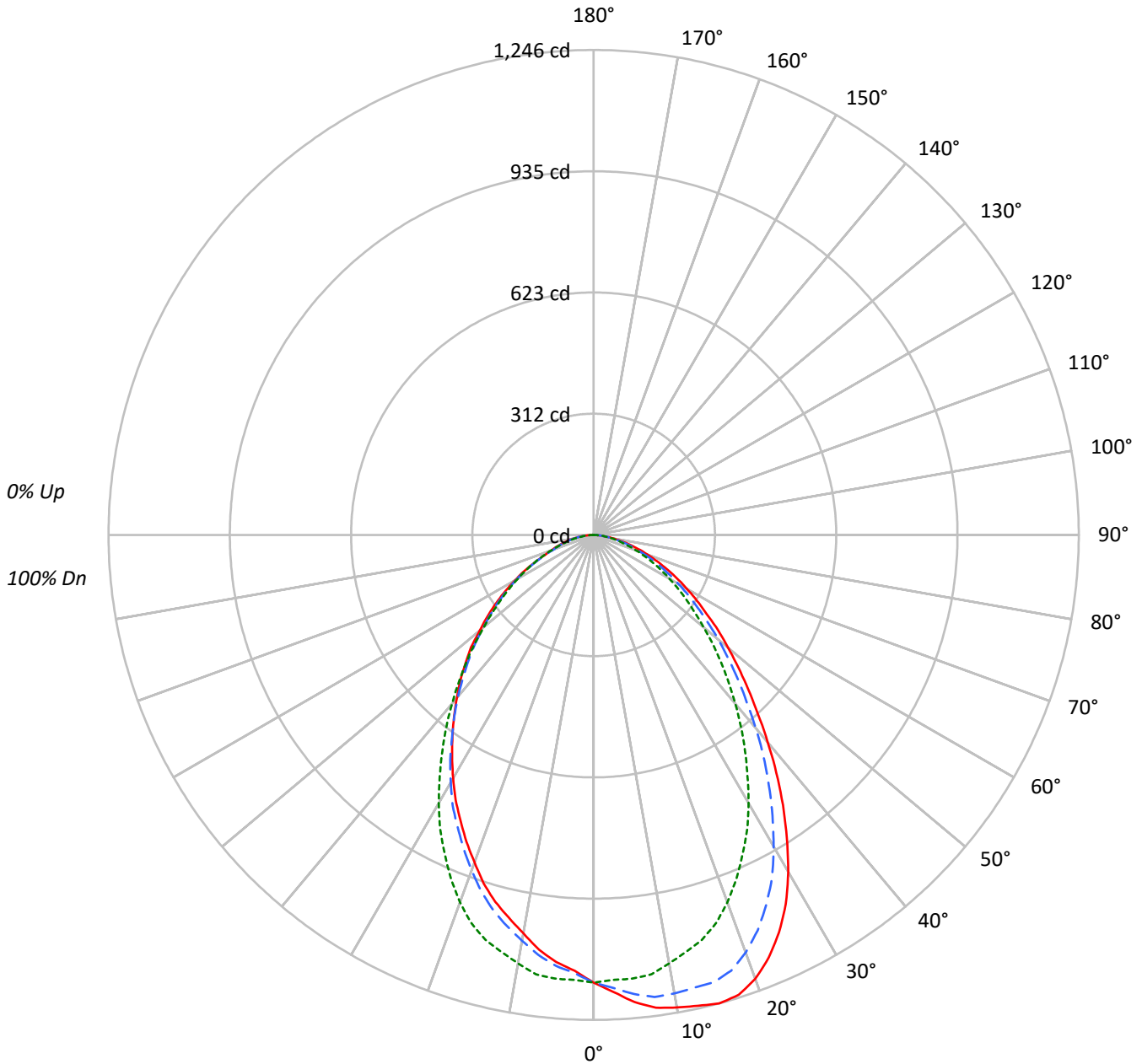
Lumens per Lamp: N/A  
Luminaire Lumens: 2230.7 lumens  
Efficiency: N/A  
Efficacy: 83.2 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.15  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 26.8  
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: P580128  
CATALOG NUMBER: HCC4W25D010MB-HM40525827-41WWWB

### Luminous Intensity Polar Plot





TEST NUMBER: P580128

CATALOG NUMBER: HCC4W25D010MB-HM40525827-41WWWB

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

RF	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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87								
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75								
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66								
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	60	58								
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51								
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46								
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41								
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37								
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34								
10	58	45	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31								

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

	0°	90°	180°
0°	141872	141872	141872
5°	149187	141696	136397
10°	154431	139990	130196
15°	159136	137453	124632
20°	159325	131787	117453
25°	153327	123181	110130
30°	142370	113344	102832
35°	127614	102046	95165
40°	111987	91055	87963
45°	97877	80625	81131
50°	86428	70559	73092
55°	76212	62536	65718
60°	68136	55358	57553
65°	60328	48712	48712
70°	52725	41546	41546
75°	45036	35171	39365
80°	35658	31467	35658
85°	23068	27172	33399



TEST NUMBER: P580128

CATALOG NUMBER: HCC4W25D010MB-HM40525827-41WWWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.0	4.9
10°-20°	306.9	13.8
20°-30°	430.0	19.3
30°-40°	443.0	19.9
40°-50°	377.1	16.9
50°-60°	279.4	12.5
60°-70°	175.4	7.9
70°-80°	87.1	3.9
80°-90°	22.9	1.0
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°	845.8	37.9
0°-40°	1288.8	57.8
0°-60°	1945.3	87.2
0°-90°	2230.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2230.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1150	1150	1150	1150	1150	
5°	1205	1184	1144	1112	1102	116
15°	1246	1190	1076	998	976	350
25°	1127	1048	905	827	809	515
35°	848	784	678	634	632	528
45°	561	523	462	453	465	435
55°	354	326	291	297	306	320
65°	207	186	167	164	167	206
75°	94	84	74	80	83	101
85°	16	16	19	22	24	21
90°	0	0	0	0	0	

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



TEST NUMBER: P580128

CATALOG NUMBER: HCC4W25D010MB-HM40525827-41WWWB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1150.2	1150.2	1150.2	1150.2	1150.2	1150.2	1150.2	1150.2	1150.2
2.5°	1175.4	1170.9	1165.0	1154.6	1144.4	1135.4	1126.6	1122.2	1120.8
5°	1204.9	1196.1	1184.2	1165.0	1144.4	1126.6	1111.8	1104.5	1101.6
7.5°	1225.5	1216.7	1197.5	1168.0	1138.5	1111.8	1088.2	1077.9	1074.9
10°	1233.0	1222.6	1196.1	1156.2	1117.7	1085.3	1058.7	1045.5	1039.5
12.5°	1238.9	1225.5	1191.5	1144.4	1097.0	1057.2	1029.2	1011.5	1007.1
15°	1246.2	1231.5	1190.1	1132.5	1076.4	1029.2	998.1	981.9	976.0
17.5°	1238.9	1222.6	1173.8	1108.9	1045.5	993.7	959.8	945.0	939.1
20°	1213.8	1196.1	1141.4	1072.0	1004.0	951.0	917.0	902.2	894.8
22.5°	1175.4	1156.2	1100.1	1026.3	956.8	905.1	872.6	857.9	853.4
25°	1126.6	1107.4	1048.4	973.1	905.1	854.9	826.9	813.6	809.2
27.5°	1069.1	1049.9	992.3	918.4	853.4	806.2	784.1	770.8	767.8
30°	999.6	980.4	924.3	856.5	795.8	751.6	733.8	723.5	722.0
32.5°	922.8	906.6	854.9	792.9	735.3	698.4	685.1	677.7	676.3
35°	847.5	829.8	784.1	728.0	677.7	645.2	633.5	632.0	632.0
37.5°	770.8	753.0	716.1	664.4	621.6	592.0	587.6	589.1	589.1
40°	695.5	679.2	646.7	603.9	565.5	543.4	541.9	544.9	546.3
42.5°	624.6	611.4	581.8	544.9	512.3	494.6	496.1	502.1	506.5
45°	561.1	549.3	522.7	490.2	462.2	448.9	453.3	460.7	465.1
47.5°	503.5	493.1	468.1	438.5	414.9	406.1	412.0	420.8	426.8
50°	450.4	441.4	417.8	386.9	367.7	361.7	369.2	378.0	380.9
52.5°	403.1	394.2	369.2	342.5	327.7	324.8	332.3	339.6	344.0
55°	354.4	346.9	326.3	302.7	290.8	289.4	296.8	302.7	305.6
57.5°	314.5	307.1	287.9	267.2	257.0	255.5	262.8	267.2	268.7
60°	276.2	268.7	251.0	231.8	224.4	224.4	228.8	231.8	233.3
62.5°	240.7	233.3	217.1	200.8	194.9	194.9	194.9	196.3	200.8
65°	206.7	200.8	186.1	171.3	166.9	163.9	163.9	163.9	166.9
67.5°	175.7	169.8	157.9	144.7	140.2	135.8	134.4	137.3	137.3
70°	146.2	141.8	129.9	119.6	115.2	110.8	109.3	115.2	115.2
72.5°	119.6	115.2	107.8	97.4	93.0	91.6	94.5	97.4	98.9
75°	94.5	90.1	84.1	78.2	73.8	75.3	79.7	81.2	82.6
77.5°	70.9	69.4	63.4	59.0	59.0	60.5	63.4	66.5	68.0
80°	50.2	48.8	45.7	42.8	44.3	47.3	48.8	51.7	50.2
82.5°	31.0	31.0	29.6	29.6	31.0	34.0	35.5	36.9	38.4
85°	16.3	16.3	16.3	17.7	19.2	20.7	22.1	23.6	23.6
87.5°	4.4	5.9	5.9	7.3	8.8	8.8	10.4	10.4	10.4
90°	0.0	0.0	0.0	0.0	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)