

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: P580177

Luminaire Tested: **HCC4W25D010BZ-HM40525840-41WDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580177
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: HCC4W25D010BZ-HM40525840-41WDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

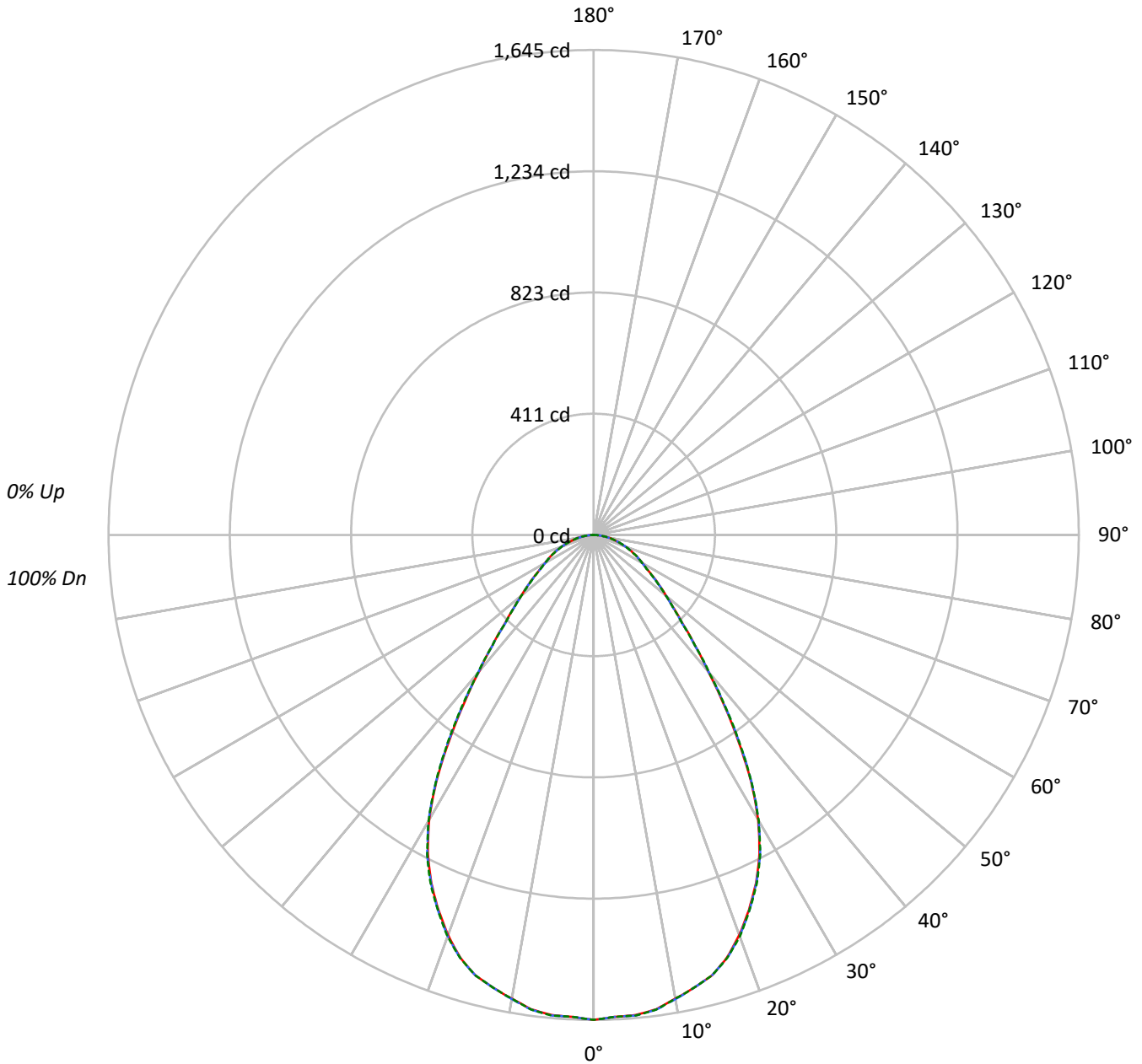
Lumens per Lamp: N/A
Luminaire Lumens: 2537.7 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (A_{in}): 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: P580177
CATALOG NUMBER: HCC4W25D010BZ-HM40525840-41WDW

Luminous Intensity Polar Plot



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



TEST NUMBER: P580177

CATALOG NUMBER: HCC4W25D010BZ-HM40525840-41WDW

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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89																			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78																			
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69																			
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	68	64	62																			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56																			
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51																			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46																			
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42																			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39																			
10	61	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	202879	202879	202879
5°	202403	202614	202614
10°	200047	200260	200047
15°	197636	197636	197636
20°	189529	189988	190211
25°	177280	177511	177974
30°	158849	159333	159333
35°	128969	129978	130249
40°	97334	97882	98139
45°	74554	74240	74240
50°	61425	61098	61098
55°	52729	52364	52364
60°	47044	46625	46625
65°	44217	44217	44217
70°	41113	41113	41113
75°	37363	38126	37363
80°	35019	33811	35019
85°	28871	28871	28871



TEST NUMBER: P580177
 CATALOG NUMBER: HCC4W25D010BZ-HM40525840-41WDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.0	6.1
10°-20°	433.7	17.1
20°-30°	595.9	23.5
30°-40°	535.8	21.1
40°-50°	338.6	13.3
50°-60°	221.0	8.7
60°-70°	149.7	5.9
70°-80°	84.3	3.3
80°-90°	23.7	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°	1184.6	46.7
0°-40°	1720.4	67.8
0°-60°	2280.0	89.8
0°-90°	2537.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2537.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1645	1645	1645	1645	1645	
5°	1635	1635	1636	1636	1636	155
15°	1548	1548	1548	1548	1548	433
25°	1303	1304	1304	1308	1308	594
35°	856	860	863	867	865	533
45°	427	426	426	426	426	339
55°	245	245	244	245	244	222
65°	152	152	152	152	152	150
75°	78	80	80	80	78	84
85°	20	20	20	20	20	24
90°	0	0	0	0	0	



TEST NUMBER: P580177

CATALOG NUMBER: HCC4W25D010BZ-HM40525840-41WDW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1644.8	1644.8	1644.8	1644.8	1644.8
2.5°	1636.4	1636.4	1636.4	1636.4	1636.4
5°	1634.7	1634.7	1636.4	1636.4	1636.4
7.5°	1622.7	1624.4	1624.4	1624.4	1624.4
10°	1597.2	1597.2	1598.9	1598.9	1597.2
12.5°	1573.4	1573.4	1573.4	1575.1	1573.4
15°	1547.7	1547.7	1547.7	1547.7	1547.7
17.5°	1503.5	1505.2	1505.2	1505.2	1505.2
20°	1443.9	1447.4	1447.4	1449.1	1449.1
22.5°	1375.8	1377.5	1379.2	1380.9	1379.2
25°	1302.6	1304.3	1304.3	1307.7	1307.7
27.5°	1217.4	1219.2	1222.6	1222.6	1222.6
30°	1115.3	1117.0	1118.7	1118.7	1118.7
32.5°	994.4	994.4	997.8	999.5	997.8
35°	856.5	859.8	863.2	866.7	865.0
37.5°	725.4	728.8	730.5	730.5	732.2
40°	604.5	607.9	607.9	611.2	609.5
42.5°	509.1	507.4	507.4	510.9	509.1
45°	427.4	425.6	425.6	425.6	425.6
47.5°	367.8	366.1	366.1	366.1	366.1
50°	320.1	318.4	318.4	318.4	318.4
52.5°	280.9	279.2	279.2	279.2	277.5
55°	245.2	245.2	243.5	245.2	243.5
57.5°	212.8	212.8	212.8	212.8	212.8
60°	190.7	189.0	189.0	189.0	189.0
62.5°	170.3	170.3	170.3	170.3	170.3
65°	151.5	151.5	151.5	151.5	151.5
67.5°	132.8	131.1	132.8	132.8	131.1
70°	114.0	112.3	114.0	114.0	114.0
72.5°	95.4	95.4	95.4	97.1	95.4
75°	78.4	80.0	80.0	80.0	78.4
77.5°	63.0	64.7	63.0	63.0	63.0
80°	49.3	47.6	47.6	47.6	49.3
82.5°	34.1	34.1	34.1	34.1	34.1
85°	20.4	20.4	20.4	20.4	20.4
87.5°	8.5	8.5	8.5	8.5	8.5
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)