

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: P580162

Luminaire Tested: **HCC4W25D010BZ-HM40525835-41WWBB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580162
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W25D010BZ-HM40525835-41WWBB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

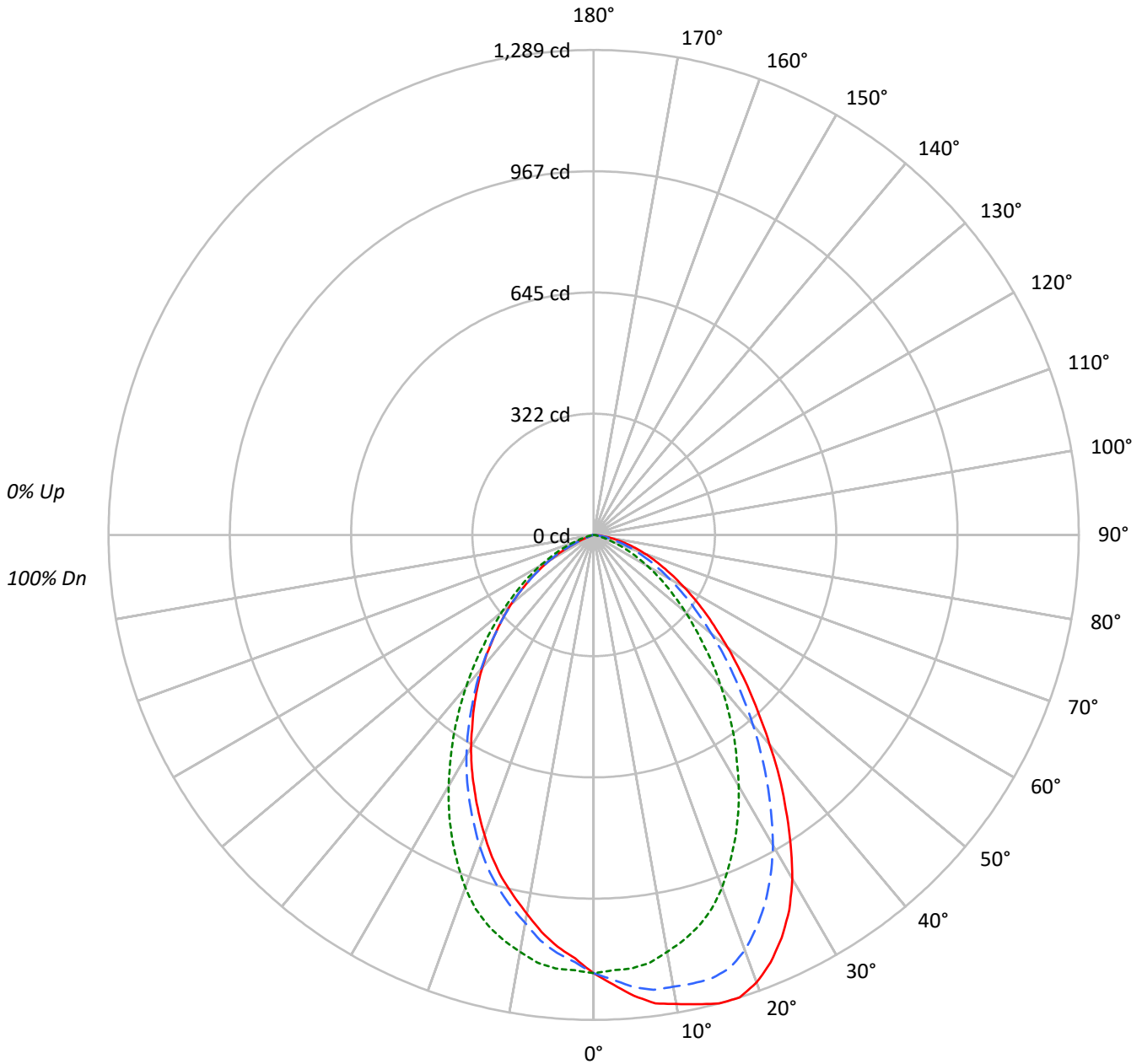
Lumens per Lamp: N/A
Luminaire Lumens: 2012.2 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.04 / 1.12
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580162
CATALOG NUMBER: HCC4W25D010BZ-HM40525835-41WWBB

Luminous Intensity Polar Plot



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



TEST NUMBER: P580162

CATALOG NUMBER: HCC4W25D010BZ-HM40525835-41WWBB

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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89								
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78								
3	96	87	80	75	94	86	79	74	83	78	73	80	76	72	78	74	71	69								
4	89	79	72	66	87	78	71	65	75	69	65	73	68	64	71	67	63	61								
5	83	72	64	58	81	71	64	58	69	62	58	67	61	57	65	60	56	55								
6	77	66	58	52	75	65	57	52	63	57	52	61	56	51	60	55	51	49								
7	72	60	53	47	71	59	52	47	58	51	47	57	51	46	55	50	46	44								
8	68	56	48	43	66	55	48	43	54	47	42	53	47	42	51	46	42	40								
9	64	52	44	39	62	51	44	39	50	43	39	49	43	39	48	43	39	37								
10	60	48	41	36	59	47	41	36	46	40	36	46	40	36	45	39	36	34								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	143685	143685	143685
5°	152233	143219	136025
10°	158552	140930	128054
15°	164627	137542	120393
20°	166164	130947	111362
25°	160798	121113	101937
30°	150332	109740	92749
35°	133999	97559	83329
40°	117123	84839	74164
45°	102028	71973	64158
50°	89038	61060	55015
55°	78040	50600	44558
60°	68259	40877	32687
65°	59481	30470	18387
70°	52004	19691	5987
75°	42653	10294	1573
80°	31751	4759	1208
85°	18681	2406	2406



TEST NUMBER: P580162

CATALOG NUMBER: HCC4W25D010BZ-HM40525835-41WWBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.9	5.5
10°-20°	307.7	15.3
20°-30°	425.4	21.1
30°-40°	427.8	21.3
40°-50°	345.2	17.2
50°-60°	233.4	11.6
60°-70°	118.8	5.9
70°-80°	38.0	1.9
80°-90°	5.8	0.3
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°	843.1	41.9
0°-40°	1270.9	63.2
0°-60°	1849.5	91.9
0°-90°	2012.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2012.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1165	1165	1165	1165	1165	
5°	1230	1206	1157	1115	1099	118
15°	1289	1220	1077	974	943	363
25°	1182	1079	890	780	749	541
35°	890	804	648	567	553	556
45°	585	524	413	368	368	453
55°	363	313	235	206	207	326
65°	204	166	104	68	63	204
75°	90	63	22	5	3	96
85°	13	7	2	2	2	18
90°	0	0	0	0	0	

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



TEST NUMBER: P580162

CATALOG NUMBER: HCC4W25D010BZ-HM40525835-41WWBB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1164.9	1164.9	1164.9	1164.9	1164.9	1164.9	1164.9	1164.9	1164.9
2.5°	1196.4	1189.7	1183.1	1171.6	1158.2	1145.0	1136.7	1130.1	1126.7
5°	1229.5	1221.2	1206.3	1181.5	1156.7	1133.4	1115.2	1103.6	1098.6
7.5°	1256.0	1244.5	1219.5	1184.8	1146.7	1110.3	1087.0	1070.4	1063.9
10°	1265.9	1252.7	1219.5	1173.1	1125.2	1080.3	1047.3	1030.7	1022.4
12.5°	1277.6	1262.7	1221.2	1163.2	1103.6	1050.5	1012.5	990.9	982.7
15°	1289.2	1269.3	1219.5	1148.3	1077.1	1015.8	974.3	952.8	942.8
17.5°	1289.2	1265.9	1206.3	1123.5	1042.3	977.6	931.3	906.4	898.1
20°	1265.9	1239.4	1174.8	1083.7	997.6	927.9	883.2	858.4	848.4
22.5°	1229.5	1199.7	1130.1	1035.6	944.5	876.6	831.8	808.6	798.7
25°	1181.5	1151.7	1078.8	981.0	889.9	821.9	780.5	758.9	749.0
27.5°	1125.2	1092.0	1019.0	921.3	831.8	767.2	729.1	709.2	700.9
30°	1055.5	1024.0	952.8	856.7	770.5	710.8	676.0	657.9	651.2
32.5°	974.3	947.8	878.2	788.7	707.5	652.9	621.4	606.5	599.8
35°	889.9	864.9	803.6	720.9	647.9	596.6	566.8	556.8	553.4
37.5°	810.3	788.7	729.1	652.9	586.6	541.8	515.4	508.7	505.5
40°	727.4	712.5	657.9	588.2	526.9	487.2	465.6	460.6	460.6
42.5°	652.9	636.3	588.2	525.3	470.6	430.8	415.9	411.0	412.6
45°	584.9	568.3	523.6	465.6	412.6	379.5	367.8	367.8	367.8
47.5°	521.9	507.0	465.6	406.0	362.9	336.3	324.8	324.8	326.4
50°	464.0	454.1	407.7	356.3	318.2	293.3	285.0	283.4	286.7
52.5°	409.3	397.7	356.3	309.9	273.4	253.6	245.2	243.6	245.2
55°	362.9	349.7	313.2	268.5	235.3	215.4	205.5	203.8	207.2
57.5°	318.2	308.2	270.1	230.3	198.8	178.9	170.7	167.3	169.0
60°	276.7	266.8	232.0	193.8	165.7	145.9	134.2	130.9	132.5
62.5°	238.7	230.3	197.2	160.8	132.5	114.4	102.7	94.5	97.8
65°	203.8	195.5	165.7	129.3	104.4	84.6	68.0	61.3	63.0
67.5°	174.0	164.0	135.9	102.7	77.9	56.3	38.2	34.8	34.8
70°	144.2	134.2	109.4	79.6	54.6	29.8	16.6	16.6	16.6
72.5°	115.9	107.7	84.6	59.6	34.8	13.2	6.7	6.7	6.7
75°	89.5	82.9	63.0	41.4	21.6	6.7	5.0	3.3	3.3
77.5°	66.3	59.6	44.7	28.2	13.2	3.3	3.3	3.3	3.3
80°	44.7	39.7	29.8	16.6	6.7	1.7	1.7	1.7	1.7
82.5°	26.5	23.1	16.6	8.2	3.3	1.7	1.7	1.7	1.7
85°	13.2	9.9	6.7	3.3	1.7	1.7	1.7	1.7	1.7
87.5°	3.3	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0
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)