

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: P580218

Luminaire Tested: **HCC4W25D010BZ-HM40525930-41WWWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580218
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: HCC4W25D010BZ-HM40525930-41WWWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

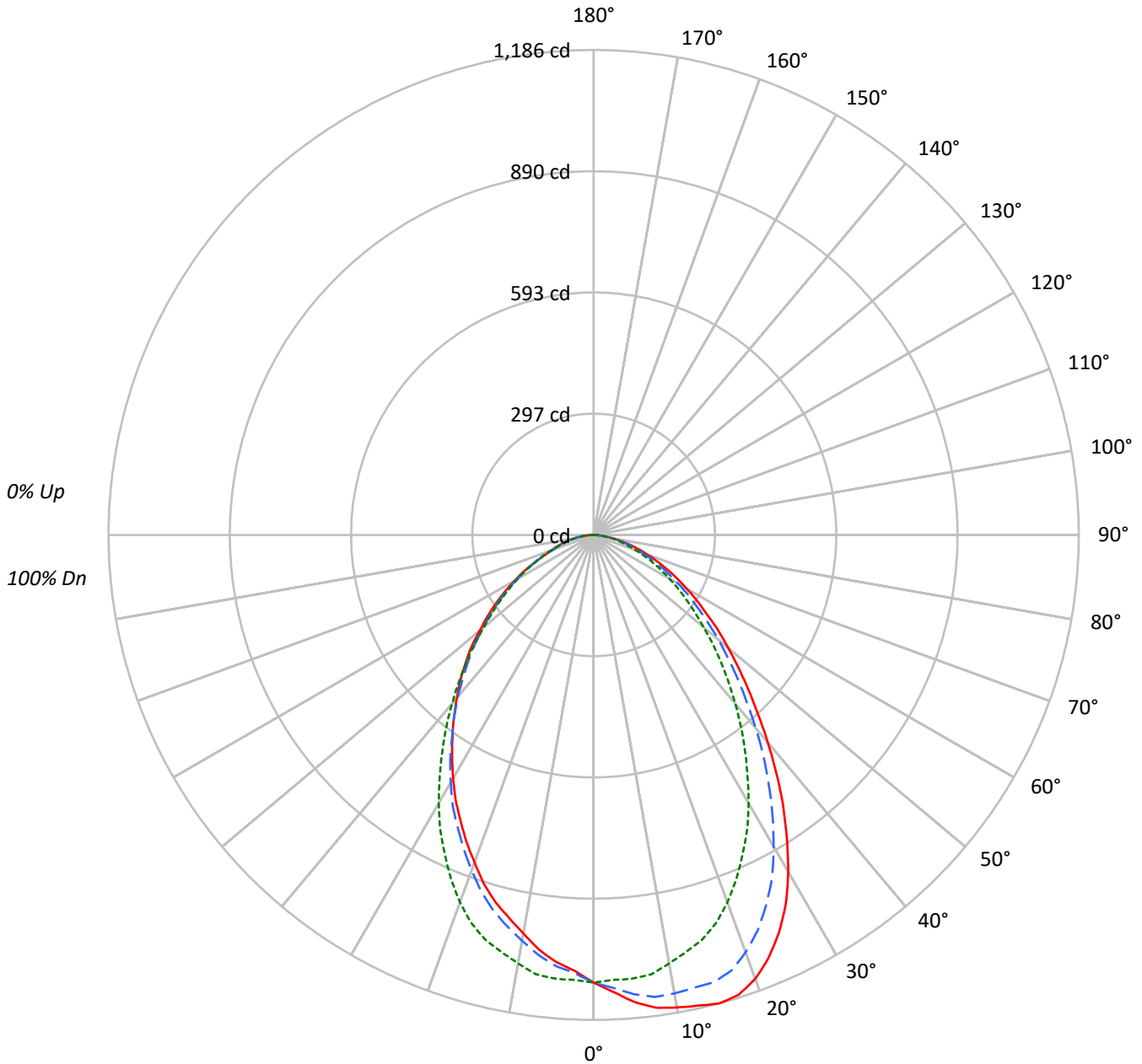
Lumens per Lamp: N/A
Luminaire Lumens: 2123.3 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (A_{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: P580218
CATALOG NUMBER: HCC4W25D010BZ-HM40525930-41WWWB

Luminous Intensity Polar Plot



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



TEST NUMBER: P580218

CATALOG NUMBER: HCC4W25D010BZ-HM40525930-41WWWB

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°	135051	135051	135051
5°	141993	134874	129822
10°	146992	133264	123933
15°	151474	130838	118643
20°	151647	125447	111796
25°	145937	117247	104822
30°	135520	107903	97876
35°	121486	97137	90572
40°	106577	86675	83728
45°	93167	76735	77223
50°	82264	67162	69580
55°	72535	59525	62557
60°	64830	52693	54790
65°	57438	46377	46377
70°	50165	39526	39526
75°	42891	33455	37506
80°	33953	29904	33953
85°	21936	25899	31843



TEST NUMBER: P580218
 CATALOG NUMBER: HCC4W25D010BZ-HM40525930-41WWWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.7	4.9
10°-20°	292.1	13.8
20°-30°	409.2	19.3
30°-40°	421.6	19.9
40°-50°	359.0	16.9
50°-60°	266.0	12.5
60°-70°	166.9	7.9
70°-80°	82.9	3.9
80°-90°	21.8	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°	805.1	37.9
0°-40°	1226.7	57.8
0°-60°	1851.7	87.2
0°-90°	2123.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2123.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1095	1095	1095	1095	1095	
5°	1147	1127	1089	1058	1048	110
15°	1186	1133	1025	950	929	334
25°	1072	998	862	787	770	490
35°	807	746	645	603	602	503
45°	534	498	440	432	443	414
55°	337	311	277	282	291	305
65°	197	177	159	156	159	196
75°	90	80	70	76	79	96
85°	16	16	18	21	22	20
90°	0	0	0	0	0	

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



TEST NUMBER: P580218

CATALOG NUMBER: HCC4W25D010BZ-HM40525930-41WWWB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1094.9	1094.9	1094.9	1094.9	1094.9	1094.9	1094.9	1094.9	1094.9
2.5°	1118.7	1114.5	1108.9	1099.1	1089.3	1080.8	1072.3	1068.1	1066.8
5°	1146.8	1138.5	1127.2	1108.9	1089.3	1072.3	1058.3	1051.3	1048.5
7.5°	1166.5	1158.1	1139.8	1111.7	1083.6	1058.3	1035.9	1026.0	1023.2
10°	1173.6	1163.8	1138.5	1100.4	1064.0	1033.0	1007.7	995.1	989.5
12.5°	1179.2	1166.5	1134.2	1089.3	1044.2	1006.3	979.6	962.7	958.5
15°	1186.2	1172.1	1132.8	1078.0	1024.6	979.6	950.1	934.6	929.1
17.5°	1179.2	1163.8	1117.4	1055.5	995.1	945.9	913.6	899.5	893.8
20°	1155.3	1138.5	1086.4	1020.4	955.7	905.1	872.8	858.7	851.7
22.5°	1118.7	1100.4	1047.0	976.8	910.8	861.5	830.6	816.6	812.3
25°	1072.3	1054.1	997.9	926.2	861.5	813.8	787.0	774.4	770.2
27.5°	1017.6	999.3	944.5	874.2	812.3	767.4	746.3	733.6	730.8
30°	951.5	933.2	879.8	815.1	757.6	715.3	698.5	688.7	687.2
32.5°	878.4	863.0	813.8	754.7	699.9	664.8	652.1	645.1	643.8
35°	806.8	789.8	746.3	692.9	645.1	614.2	603.0	601.5	601.5
37.5°	733.6	716.8	681.7	632.5	591.7	563.6	559.4	560.8	560.8
40°	661.9	646.5	615.6	574.9	538.3	517.2	515.8	518.7	520.0
42.5°	594.5	581.9	553.8	518.7	487.7	470.8	472.3	477.9	482.1
45°	534.1	522.8	497.6	466.6	439.9	427.2	431.5	438.5	442.7
47.5°	479.3	469.4	445.5	417.4	394.9	386.5	392.1	400.6	406.2
50°	428.7	420.2	397.7	368.3	350.0	344.3	351.3	359.8	362.6
52.5°	383.7	375.3	351.3	326.1	312.1	309.2	316.2	323.2	327.5
55°	337.3	330.2	310.6	288.1	276.8	275.5	282.5	288.1	290.9
57.5°	299.4	292.3	274.1	254.4	244.5	243.2	250.2	254.4	255.8
60°	262.8	255.8	238.9	220.6	213.6	213.6	217.9	220.6	222.1
62.5°	229.1	222.1	206.6	191.1	185.5	185.5	185.5	187.0	191.1
65°	196.8	191.1	177.1	163.0	158.9	156.0	156.0	156.0	158.9
67.5°	167.2	161.7	150.4	137.7	133.6	129.3	127.9	130.7	130.7
70°	139.1	134.9	123.6	113.8	109.6	105.4	104.0	109.6	109.6
72.5°	113.8	109.6	102.6	92.8	88.5	87.2	90.0	92.8	94.2
75°	90.0	85.7	80.2	74.5	70.2	71.7	75.9	77.3	78.7
77.5°	67.5	66.0	60.4	56.2	56.2	57.6	60.4	63.2	64.7
80°	47.8	46.4	43.6	40.8	42.1	44.9	46.4	49.2	47.8
82.5°	29.5	29.5	28.1	28.1	29.5	32.3	33.8	35.1	36.6
85°	15.5	15.5	15.5	16.8	18.3	19.6	21.1	22.5	22.5
87.5°	4.2	5.6	5.6	7.0	8.5	8.5	9.8	9.8	9.8
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)