

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: P580378

Luminaire Tested: **HCC4W30D010BZ-HM43040935-41WWBB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580378
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: HCC4W30D010BZ-HM43040935-41WWBB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

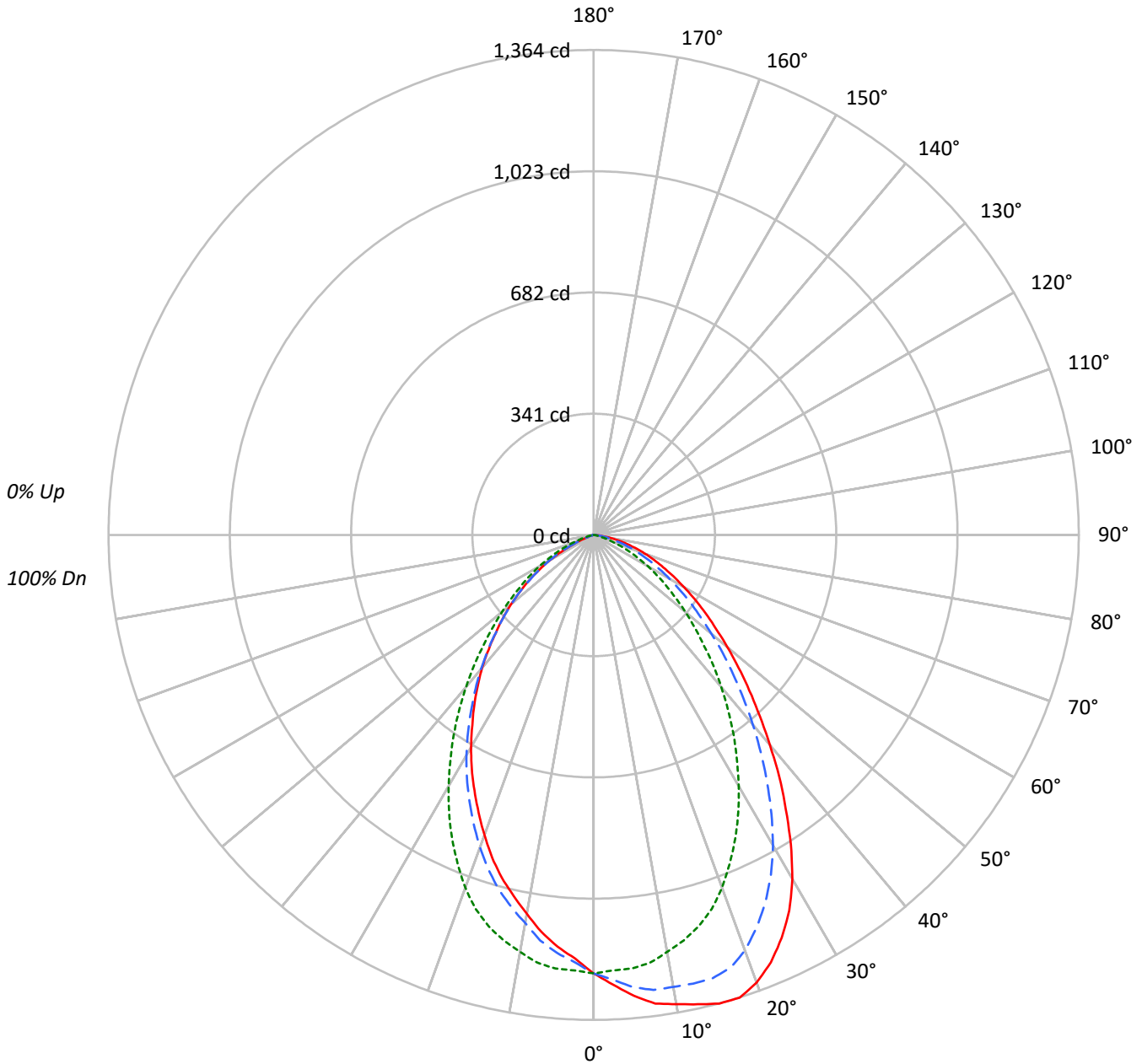
Lumens per Lamp: N/A
Luminaire Lumens: 2129.8 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.04 / 1.12
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 28
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: P580378
CATALOG NUMBER: HCC4W30D010BZ-HM43040935-41WWBB

Luminous Intensity Polar Plot



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



TEST NUMBER: P580378

CATALOG NUMBER: HCC4W30D010BZ-HM43040935-41WWBB

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	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°	152085	152085	152085
5°	161135	151577	143987
10°	167833	149158	135544
15°	174242	145587	127429
20°	175891	138599	117873
25°	170189	128190	107898
30°	159134	116149	98175
35°	141829	103266	88208
40°	123983	89815	78512
45°	108011	76194	67926
50°	94238	64610	58220
55°	82599	53568	47160
60°	72256	43270	34611
65°	62984	32251	19467
70°	55033	20881	6311
75°	45179	10866	1668
80°	33669	4972	1279
85°	19813	2547	2547



TEST NUMBER: P580378
 CATALOG NUMBER: HCC4W30D010BZ-HM43040935-41WWBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.4	5.5
10°-20°	325.7	15.3
20°-30°	450.3	21.1
30°-40°	452.8	21.3
40°-50°	365.4	17.2
50°-60°	247.1	11.6
60°-70°	125.7	5.9
70°-80°	40.3	1.9
80°-90°	6.2	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°	892.4	41.9
0°-40°	1345.2	63.2
0°-60°	1957.6	91.9
0°-90°	2129.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2129.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1233	1233	1233	1233	1233	
5°	1301	1277	1224	1180	1163	125
15°	1364	1291	1140	1031	998	384
25°	1250	1142	942	826	793	572
35°	942	851	686	600	586	589
45°	619	554	437	389	389	480
55°	384	332	249	218	219	345
65°	216	175	110	72	67	216
75°	95	67	23	5	4	102
85°	14	7	2	2	2	19
90°	0	0	0	0	0	

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



TEST NUMBER: P580378

CATALOG NUMBER: HCC4W30D010BZ-HM43040935-41WWBB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1233.0	1233.0	1233.0	1233.0	1233.0	1233.0	1233.0	1233.0	1233.0
2.5°	1266.3	1259.3	1252.3	1240.0	1226.0	1211.9	1203.2	1196.1	1192.6
5°	1301.4	1292.7	1276.9	1250.5	1224.2	1199.7	1180.5	1168.2	1162.9
7.5°	1329.5	1317.2	1290.9	1254.1	1213.7	1175.2	1150.6	1133.1	1126.0
10°	1340.0	1326.0	1290.9	1241.8	1190.9	1143.6	1108.5	1091.0	1082.2
12.5°	1352.2	1336.5	1292.7	1231.2	1168.2	1112.0	1071.6	1048.8	1040.1
15°	1364.5	1343.6	1290.9	1215.4	1140.1	1075.2	1031.3	1008.5	997.9
17.5°	1364.5	1340.0	1276.9	1189.1	1103.2	1034.8	985.8	959.4	950.7
20°	1340.0	1312.0	1243.5	1147.1	1055.9	982.1	934.9	908.5	898.0
22.5°	1301.4	1269.9	1196.1	1096.2	999.7	927.8	880.5	855.9	845.4
25°	1250.5	1219.0	1141.8	1038.3	941.9	869.9	826.1	803.2	792.8
27.5°	1190.9	1155.9	1078.7	975.2	880.5	812.0	771.8	750.7	741.9
30°	1117.3	1083.9	1008.5	906.8	815.5	752.5	715.6	696.3	689.3
32.5°	1031.3	1003.2	929.6	834.8	748.9	691.0	657.7	641.9	635.0
35°	941.9	915.6	850.6	763.0	685.8	631.5	599.9	589.3	585.8
37.5°	857.6	834.8	771.8	691.0	620.9	573.6	545.5	538.5	534.9
40°	770.0	754.2	696.3	622.7	557.8	515.6	492.8	487.6	487.6
42.5°	691.0	673.5	622.7	556.0	498.1	456.1	440.3	435.0	436.8
45°	619.2	601.6	554.2	492.8	436.8	401.7	389.4	389.4	389.4
47.5°	552.5	536.7	492.8	429.8	384.1	356.0	343.8	343.8	345.5
50°	491.1	480.5	431.5	377.1	336.7	310.4	301.6	299.9	303.4
52.5°	433.3	421.0	377.1	328.0	289.4	268.4	259.6	257.9	259.6
55°	384.1	370.1	331.5	284.1	249.1	228.0	217.5	215.8	219.3
57.5°	336.7	326.2	285.8	243.8	210.5	189.4	180.7	177.1	178.9
60°	292.9	282.3	245.6	205.2	175.4	154.3	142.0	138.5	140.3
62.5°	252.6	243.8	208.7	170.1	140.3	121.0	108.7	99.9	103.4
65°	215.8	207.0	175.4	136.8	110.5	89.5	72.0	64.9	66.7
67.5°	184.2	173.6	143.8	108.7	82.5	59.7	40.4	36.9	36.9
70°	152.6	142.0	115.7	84.1	57.9	31.6	17.5	17.5	17.5
72.5°	122.7	114.0	89.5	63.2	36.9	14.0	7.0	7.0	7.0
75°	94.8	87.6	66.7	43.9	22.8	7.0	5.3	3.5	3.5
77.5°	70.2	63.2	47.4	29.8	14.0	3.5	3.5	3.5	3.5
80°	47.4	42.1	31.6	17.5	7.0	1.8	1.8	1.8	1.8
82.5°	28.1	24.6	17.5	8.8	3.5	1.8	1.8	1.8	1.8
85°	14.0	10.5	7.0	3.5	1.8	1.8	1.8	1.8	1.8
87.5°	3.5	1.8	1.8	1.8	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)