

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: P580362

Luminaire Tested: **HCC4W30D010MW-HM43040930-41WWWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580362
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: HCC4W30D010MW-HM43040930-41WWWB
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

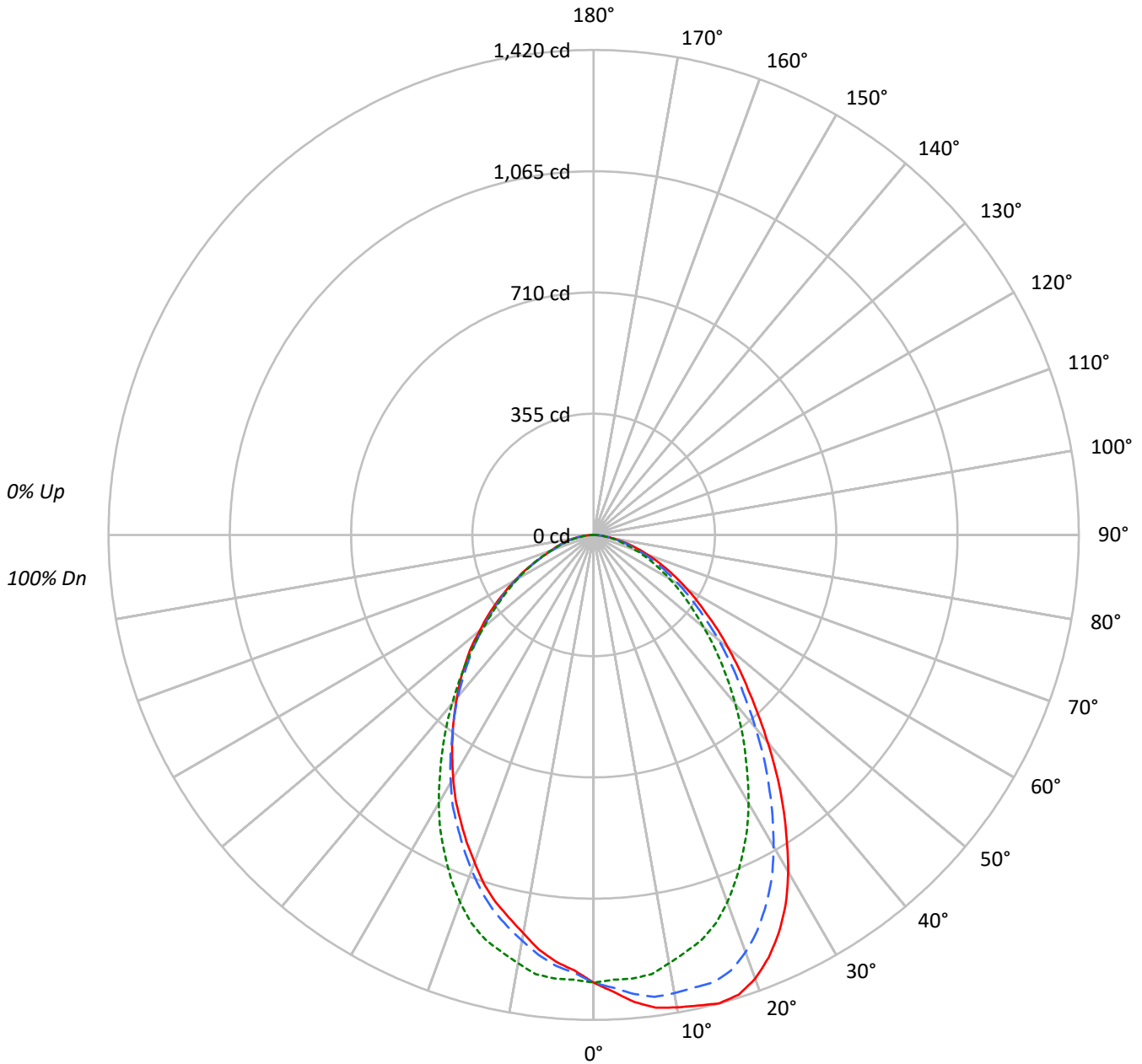
Lumens per Lamp: N/A
Luminaire Lumens: 2541.5 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P580362
CATALOG NUMBER: HCC4W30D010MW-HM43040930-41WWWB

Luminous Intensity Polar Plot





TEST NUMBER: P580362

CATALOG NUMBER: HCC4W30D010MW-HM43040930-41WWWB

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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87					87			
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75					75			
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66					66			
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	60	58					58			
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51					51			
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46					46			
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41					41			
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37					37			
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34					34			
10	58	45	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31					31			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	161644	161644	161644
5°	169976	161420	155390
10°	175936	159504	148332
15°	181304	156607	141999
20°	181509	150150	133821
25°	174694	140343	125468
30°	162210	129153	117175
35°	145412	116261	108416
40°	127573	103743	100217
45°	111500	91859	92434
50°	98460	80383	83300
55°	86814	71266	74879
60°	77609	63079	65571
65°	68733	55483	55483
70°	60046	47316	47316
75°	51279	40080	44893
80°	40630	35800	40630
85°	26182	30994	38211



TEST NUMBER: P580362
 CATALOG NUMBER: HCC4W30D010MW-HM43040930-41WWWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.2	4.9
10°-20°	349.7	13.8
20°-30°	489.8	19.3
30°-40°	504.7	19.9
40°-50°	429.7	16.9
50°-60°	318.3	12.5
60°-70°	199.8	7.9
70°-80°	99.2	3.9
80°-90°	26.1	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°	963.7	37.9
0°-40°	1468.3	57.8
0°-60°	2216.4	87.2
0°-90°	2541.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2541.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1310	1310	1310	1310	1310	
5°	1373	1349	1304	1267	1255	132
15°	1420	1356	1226	1137	1112	399
25°	1284	1194	1031	942	922	587
35°	966	893	772	722	720	602
45°	639	596	527	516	530	496
55°	404	372	331	338	348	365
65°	236	212	190	187	190	235
75°	108	96	84	91	94	115
85°	18	18	22	25	27	24
90°	0	0	0	0	0	

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



TEST NUMBER: P580362

CATALOG NUMBER: HCC4W30D010MW-HM43040930-41WWWB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1310.5	1310.5	1310.5	1310.5	1310.5	1310.5	1310.5	1310.5	1310.5
2.5°	1339.0	1334.1	1327.3	1315.6	1303.7	1293.7	1283.6	1278.5	1276.9
5°	1372.8	1362.6	1349.2	1327.3	1303.7	1283.6	1266.7	1258.4	1255.0
7.5°	1396.2	1386.2	1364.3	1330.7	1297.1	1266.7	1239.8	1228.1	1224.7
10°	1404.7	1393.0	1362.6	1317.2	1273.5	1236.5	1206.2	1191.1	1184.3
12.5°	1411.5	1396.2	1357.5	1303.7	1249.9	1204.5	1172.6	1152.4	1147.3
15°	1419.8	1403.0	1356.0	1290.3	1226.4	1172.6	1137.2	1118.8	1112.0
17.5°	1411.5	1393.0	1337.4	1263.4	1191.1	1132.2	1093.5	1076.7	1069.9
20°	1382.8	1362.6	1300.4	1221.3	1143.9	1083.3	1044.6	1027.8	1019.5
22.5°	1339.0	1317.2	1253.3	1169.2	1090.1	1031.2	994.2	977.4	972.3
25°	1283.6	1261.7	1194.4	1108.6	1031.2	974.0	942.1	926.9	921.9
27.5°	1218.0	1196.1	1130.5	1046.3	972.3	918.5	893.3	878.1	874.8
30°	1138.9	1117.1	1053.1	975.7	906.8	856.3	836.1	824.3	822.7
32.5°	1051.4	1032.9	974.0	903.4	837.8	795.7	780.6	772.1	770.5
35°	965.7	945.5	893.3	829.3	772.1	735.1	721.7	720.0	720.0
37.5°	878.1	858.0	815.9	757.0	708.3	674.5	669.6	671.3	671.3
40°	792.3	773.8	736.8	688.1	644.3	619.0	617.4	620.7	622.4
42.5°	711.7	696.4	662.8	620.7	583.7	563.5	565.2	572.0	577.0
45°	639.2	625.8	595.5	558.5	526.6	511.4	516.5	524.9	529.9
47.5°	573.7	561.9	533.3	499.6	472.7	462.6	469.4	479.4	486.2
50°	513.1	503.0	476.1	440.7	418.9	412.2	420.5	430.7	434.1
52.5°	459.2	449.2	420.5	390.3	373.5	370.1	378.6	386.9	392.0
55°	403.7	395.4	371.8	344.8	331.4	329.7	338.2	344.8	348.2
57.5°	358.4	349.9	328.0	304.4	292.7	291.0	299.5	304.4	306.1
60°	314.6	306.1	285.9	264.1	255.7	255.7	260.8	264.1	265.8
62.5°	274.2	265.8	247.3	228.8	222.1	222.1	222.1	223.8	228.8
65°	235.5	228.8	212.0	195.1	190.1	186.7	186.7	186.7	190.1
67.5°	200.2	193.5	180.0	164.9	159.8	154.8	153.1	156.5	156.5
70°	166.5	161.5	148.0	136.3	131.2	126.2	124.5	131.2	131.2
72.5°	136.3	131.2	122.8	111.0	106.0	104.3	107.6	111.0	112.7
75°	107.6	102.6	95.9	89.1	84.1	85.8	90.8	92.5	94.2
77.5°	80.8	79.1	72.3	67.3	67.3	68.9	72.3	75.7	77.4
80°	57.2	55.5	52.1	48.7	50.4	53.8	55.5	58.9	57.2
82.5°	35.3	35.3	33.6	33.6	35.3	38.7	40.4	42.1	43.8
85°	18.5	18.5	18.5	20.2	21.9	23.6	25.3	27.0	27.0
87.5°	5.1	6.8	6.8	8.5	10.0	10.0	11.7	11.7	11.7
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)