

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: P580269

Luminaire Tested: **HCC4W30D010MW-HM43040827-41RWWH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580269
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W30D010MW-HM43040827-41RWWH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

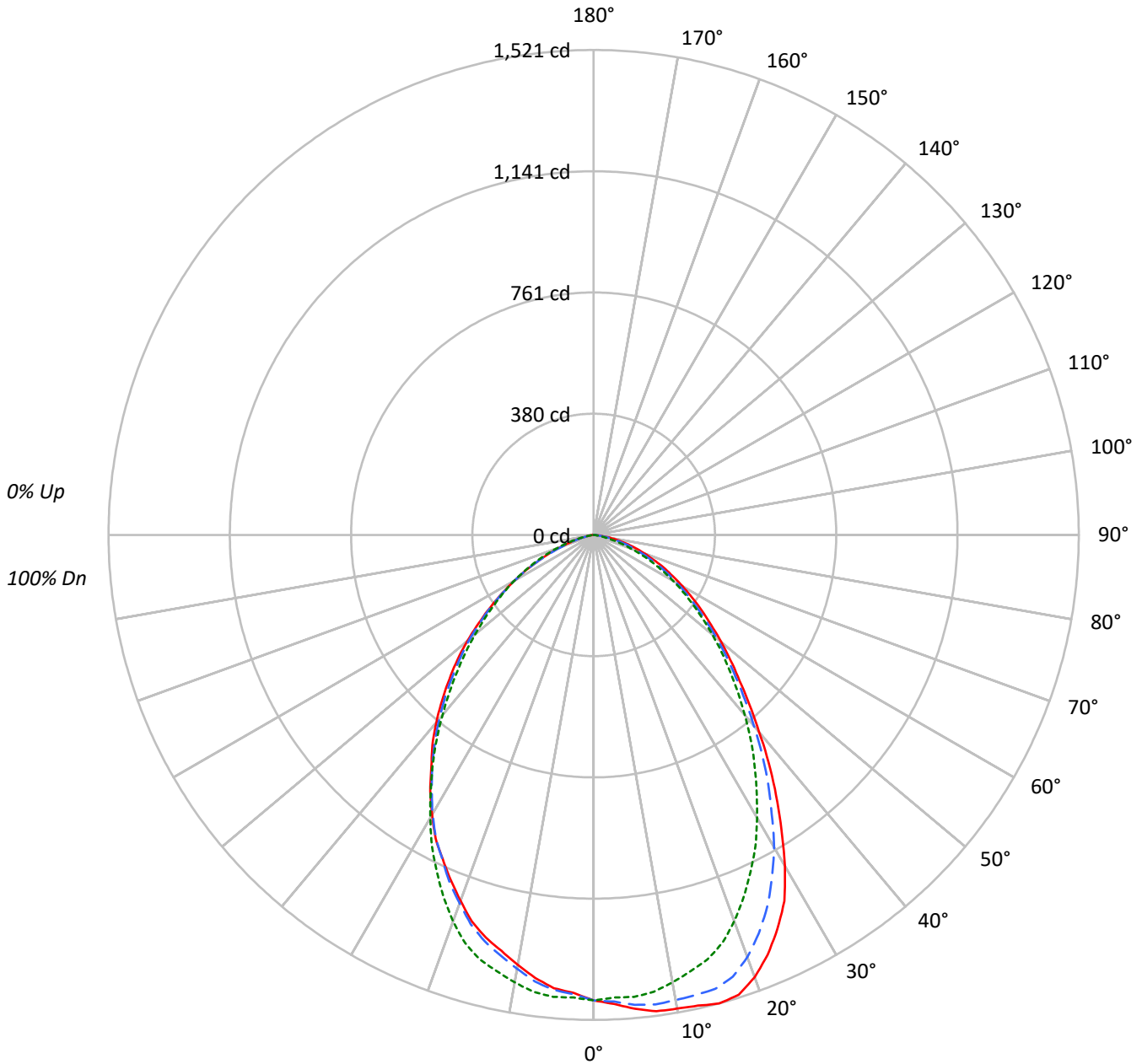
Lumens per Lamp: N/A
Luminaire Lumens: 2782.1 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580269
CATALOG NUMBER: HCC4W30D010MW-HM43040827-41RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P580269

CATALOG NUMBER: HCC4W30D010MW-HM43040827-41RWWH

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	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88								
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77								
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67								
4	88	77	70	64	86	76	69	63	74	67	62	71	66	62	69	65	61	59								
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52								
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47								
7	71	58	51	45	69	58	50	45	56	49	45	55	49	44	54	48	44	42								
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38								
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	37	35								
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	180035	180035	180035
5°	184759	180054	176687
10°	188950	178504	171453
15°	194265	175979	166951
20°	193742	169223	160179
25°	185568	158430	152510
30°	170699	145902	144364
35°	150171	132418	133517
40°	129924	118524	123499
45°	112931	105325	111640
50°	100225	92895	99150
55°	88900	81503	85008
60°	79163	70677	70677
65°	70397	58722	55045
70°	60804	44467	39201
75°	50945	29404	24210
80°	38641	14206	12928
85°	20662	5095	5095



TEST NUMBER: P580269
 CATALOG NUMBER: HCC4W30D010MW-HM43040827-41RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.2	5.0
10°-20°	391.9	14.1
20°-30°	552.7	19.9
30°-40°	570.9	20.5
40°-50°	484.0	17.4
50°-60°	352.1	12.7
60°-70°	205.8	7.4
70°-80°	76.5	2.7
80°-90°	10.0	0.4
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°	1082.8	38.9
0°-40°	1653.7	59.4
0°-60°	2489.9	89.5
0°-90°	2782.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2782.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1460	1460	1460	1460	1460	
5°	1492	1480	1454	1432	1427	143
15°	1521	1474	1378	1320	1307	428
25°	1364	1287	1164	1122	1121	624
35°	997	954	879	881	887	623
45°	647	629	604	626	640	504
55°	413	393	379	392	395	372
65°	241	221	201	189	189	239
75°	107	89	62	49	51	115
85°	15	9	4	4	4	20
90°	0	0	0	0	0	

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



TEST NUMBER: P580269

CATALOG NUMBER: HCC4W30D010MW-HM43040827-41RWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1459.6	1459.6	1459.6	1459.6	1459.6	1459.6	1459.6	1459.6	1459.6
2.5°	1472.4	1468.8	1465.0	1459.6	1452.4	1447.0	1441.5	1437.9	1437.9
5°	1492.2	1486.8	1479.6	1466.9	1454.2	1443.3	1432.4	1427.0	1427.0
7.5°	1506.8	1499.6	1485.0	1466.9	1445.2	1428.8	1412.5	1405.3	1401.7
10°	1508.6	1501.4	1481.4	1454.2	1425.2	1399.8	1381.7	1370.7	1368.9
12.5°	1512.2	1503.2	1477.8	1439.7	1401.7	1370.7	1350.9	1340.0	1336.3
15°	1521.3	1508.6	1474.2	1425.2	1378.1	1341.8	1320.0	1311.0	1307.4
17.5°	1512.2	1494.1	1452.4	1394.3	1341.8	1301.9	1280.2	1271.0	1271.0
20°	1476.0	1457.8	1408.9	1345.4	1289.2	1251.2	1229.4	1223.9	1220.3
22.5°	1425.2	1405.3	1352.7	1285.6	1229.4	1194.9	1180.5	1173.1	1171.3
25°	1363.5	1343.6	1287.4	1218.5	1164.1	1135.1	1122.4	1122.4	1120.6
27.5°	1294.6	1269.2	1211.2	1151.3	1098.8	1077.0	1071.6	1071.6	1073.4
30°	1198.5	1180.5	1131.5	1073.4	1024.4	1010.0	1010.0	1013.6	1013.6
32.5°	1095.2	1082.5	1039.0	988.2	950.1	941.1	944.7	951.9	953.7
35°	997.3	982.7	953.7	908.4	879.4	875.8	881.2	886.7	886.7
37.5°	901.2	886.7	866.8	830.4	808.7	810.5	817.8	825.0	830.4
40°	806.9	796.0	781.5	752.5	736.1	743.5	752.5	759.7	767.0
42.5°	723.5	712.6	701.7	680.0	669.1	678.2	689.0	696.3	703.5
45°	647.4	640.0	629.2	611.0	603.8	612.8	625.6	632.8	640.0
47.5°	582.0	578.4	563.9	547.6	543.9	553.1	563.9	573.0	578.4
50°	522.3	516.7	504.1	487.7	484.1	498.7	505.9	511.3	516.7
52.5°	464.2	458.8	444.2	429.8	429.8	440.6	446.0	447.8	453.3
55°	413.4	408.0	393.4	382.6	379.0	388.0	391.6	391.6	395.3
57.5°	366.3	360.8	346.3	333.7	331.9	337.3	337.3	337.3	339.1
60°	320.9	315.5	301.0	290.1	286.5	288.3	286.5	284.7	286.5
62.5°	279.3	273.8	259.3	246.6	243.0	243.0	237.6	235.8	237.6
65°	241.2	232.1	221.2	208.6	201.2	195.8	188.6	188.6	188.6
67.5°	203.0	195.8	183.2	170.4	161.4	152.3	141.5	145.1	146.9
70°	168.6	163.2	148.7	136.0	123.3	112.5	103.3	106.9	108.7
72.5°	137.8	130.5	117.9	103.3	92.5	77.9	72.5	76.1	76.1
75°	106.9	99.7	88.9	74.3	61.7	49.0	49.0	50.8	50.8
77.5°	79.7	72.5	61.7	49.0	38.1	29.0	30.8	30.8	30.8
80°	54.4	49.0	39.9	29.0	20.0	16.4	16.4	16.4	18.2
82.5°	30.8	27.2	21.8	14.6	9.0	9.0	9.0	9.0	9.0
85°	14.6	10.8	9.0	5.4	3.6	3.6	3.6	3.6	3.6
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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)