

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: P592741

Luminaire Tested: **HCC4W30D010MB-HM43040850-41RWWC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592741
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W30D010MB-HM43040850-41RWWC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

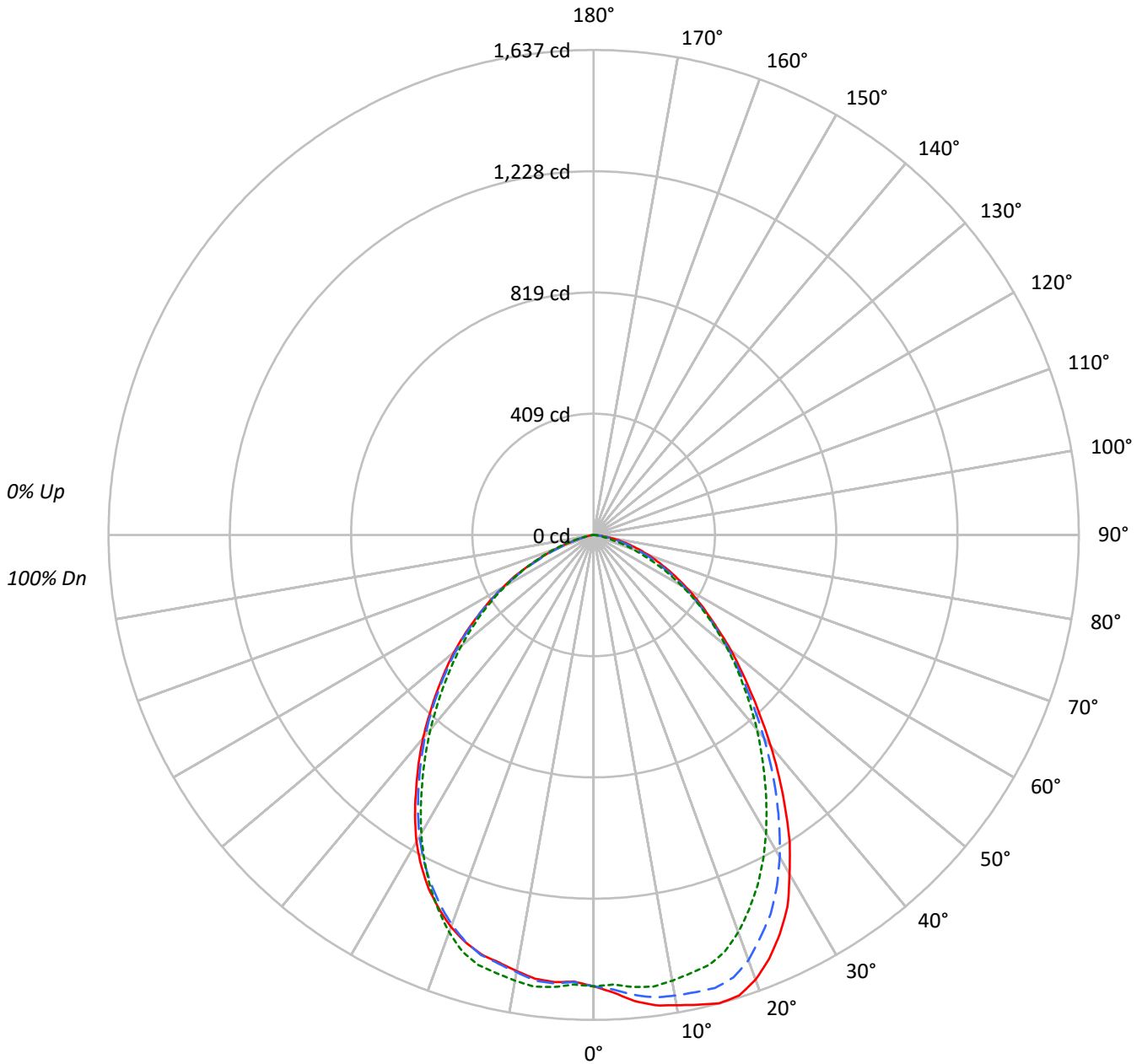
Lumens per Lamp: N/A
Luminaire Lumens: 3174.7 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.15 / 1.21
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P592741
CATALOG NUMBER: HCC4W30D010MB-HM43040850-41RWWC

Luminous Intensity Polar Plot



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



TEST NUMBER: P592741

CATALOG NUMBER: HCC4W30D010MB-HM43040850-41RWWC

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	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88								
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76								
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67								
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58								
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52								
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46								
7	70	58	50	44	69	57	49	44	56	49	44	54	48	44	53	47	43	41								
8	66	53	45	40	64	53	45	40	51	44	40	50	44	39	49	43	39	37								
9	62	49	42	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34								
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	187917	187917	187917
5°	195519	189650	187607
10°	201900	191342	187196
15°	209001	191903	187178
20°	209704	187271	184843
25°	202294	177933	179321
30°	188246	165671	170357
35°	169565	151586	157157
40°	149504	137910	144190
45°	130706	124252	130357
50°	115768	111796	117726
55°	101825	98728	102706
60°	90906	84319	86835
65°	79911	68500	67303
70°	69820	50489	46054
75°	57903	30405	24496
80°	43898	11720	7316
85°	20379	2830	2830



TEST NUMBER: P592741
 CATALOG NUMBER: HCC4W30D010MB-HM43040850-41RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.9	4.6
10°-20°	428.8	13.5
20°-30°	621.0	19.6
30°-40°	655.2	20.6
40°-50°	567.1	17.9
50°-60°	420.1	13.2
60°-70°	242.1	7.6
70°-80°	84.6	2.7
80°-90°	8.9	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°	1196.8	37.7
0°-40°	1852.0	58.3
0°-60°	2839.1	89.4
0°-90°	3174.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3174.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1524	1524	1524	1524	1524	
5°	1579	1558	1532	1519	1515	152
15°	1637	1583	1503	1468	1466	460
25°	1486	1412	1307	1299	1318	680
35°	1126	1075	1007	1029	1044	703
45°	749	729	712	739	747	582
55°	474	463	459	476	478	427
65°	274	257	235	222	231	273
75°	122	103	64	51	51	131
85°	14	8	2	2	2	22
90°	0	0	0	0	0	

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



TEST NUMBER: P592741

CATALOG NUMBER: HCC4W30D010MB-HM43040850-41RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1523.5	1523.5	1523.5	1523.5	1523.5	1523.5	1523.5	1523.5	1523.5
2.5°	1546.1	1542.0	1535.9	1527.7	1519.3	1513.2	1511.1	1509.0	1509.0
5°	1579.1	1570.9	1558.4	1542.0	1531.7	1525.5	1519.3	1515.2	1515.2
7.5°	1601.8	1593.5	1574.9	1552.4	1537.9	1525.5	1517.3	1511.1	1511.1
10°	1612.0	1601.8	1579.1	1550.2	1527.7	1511.1	1498.8	1494.6	1494.6
12.5°	1624.3	1612.0	1581.1	1544.1	1515.2	1494.6	1482.3	1478.1	1478.1
15°	1636.7	1622.3	1583.1	1539.9	1502.8	1478.1	1467.9	1465.8	1465.8
17.5°	1630.5	1612.0	1566.7	1515.2	1474.1	1449.4	1439.1	1439.1	1441.1
20°	1597.6	1579.1	1527.7	1469.9	1426.7	1408.2	1400.0	1404.0	1408.2
22.5°	1548.2	1525.5	1469.9	1414.4	1369.1	1352.6	1352.6	1358.8	1365.0
25°	1486.4	1465.8	1412.3	1350.6	1307.4	1294.9	1299.1	1309.4	1317.6
27.5°	1416.4	1393.8	1338.1	1280.5	1237.3	1231.1	1241.5	1255.8	1260.0
30°	1321.7	1303.2	1255.8	1200.3	1163.2	1161.2	1175.6	1185.9	1196.1
32.5°	1231.1	1210.6	1165.2	1111.8	1084.9	1087.1	1103.5	1115.8	1122.0
35°	1126.1	1107.6	1074.6	1031.4	1006.7	1010.8	1029.4	1041.7	1043.7
37.5°	1027.3	1015.0	982.0	949.1	930.6	938.8	955.3	969.6	969.6
40°	928.5	918.2	893.5	866.8	856.5	866.8	883.2	895.5	895.5
42.5°	833.8	827.6	807.1	788.5	782.4	796.7	811.1	821.4	819.4
45°	749.3	743.2	728.8	714.4	712.3	726.8	739.1	745.3	747.3
47.5°	673.2	669.1	656.7	646.5	646.5	660.9	671.2	677.4	679.4
50°	603.3	599.1	588.8	580.6	582.6	597.1	605.3	611.5	613.5
52.5°	533.2	531.2	522.9	512.7	518.8	529.1	539.4	543.5	545.6
55°	473.5	473.5	463.3	455.0	459.1	469.4	475.6	477.6	477.6
57.5°	420.0	417.9	405.6	397.4	399.4	409.7	413.9	415.9	415.9
60°	368.5	366.5	354.1	341.8	341.8	347.9	350.0	352.0	352.0
62.5°	319.1	317.1	302.6	292.4	288.2	286.2	286.2	290.2	298.5
65°	273.8	271.7	257.3	240.8	234.7	228.5	222.3	226.5	230.6
67.5°	232.6	228.5	214.1	199.7	185.3	175.0	164.7	170.9	179.1
70°	193.6	189.4	172.9	156.5	140.0	123.5	115.3	123.5	127.7
72.5°	156.5	152.4	135.9	119.5	98.8	82.3	80.3	82.3	84.4
75°	121.5	119.5	103.0	84.4	63.8	51.4	51.4	51.4	51.4
77.5°	90.6	86.5	70.0	53.6	37.1	28.9	26.7	26.7	26.7
80°	61.8	57.6	43.2	30.9	16.5	12.4	12.4	10.3	10.3
82.5°	35.0	32.9	22.7	12.4	6.2	4.2	4.2	4.2	4.2
85°	14.4	12.4	8.2	4.2	2.0	2.0	2.0	2.0	2.0
87.5°	2.0	2.0	2.0	0.0	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)