

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: P580290

Luminaire Tested: **HCC4S30D010MB-HM43040830-41WWWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580290
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: HCC4S30D010MB-HM43040830-41WWWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

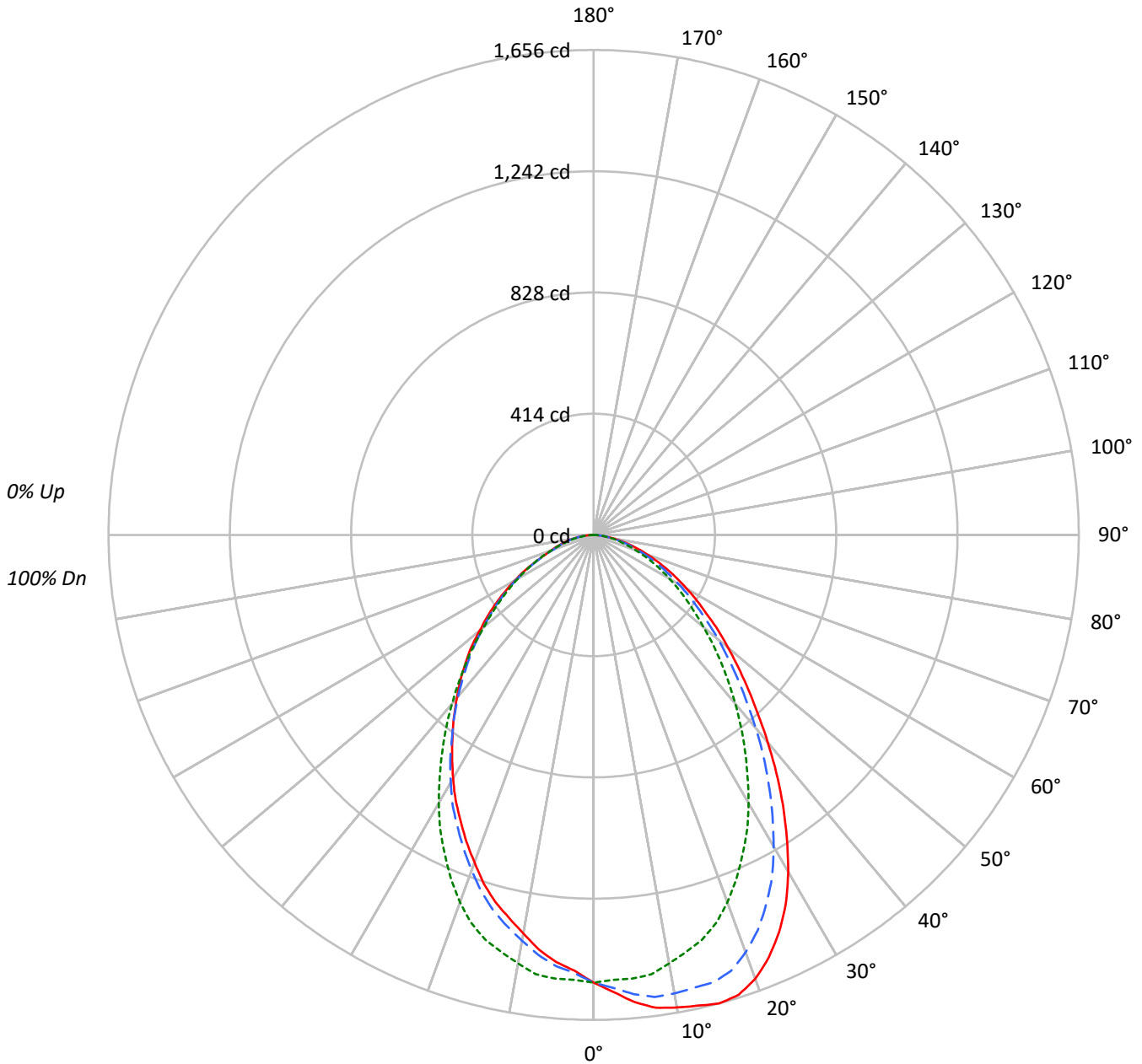
Lumens per Lamp: N/A
Luminaire Lumens: 2964.7 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580290
CATALOG NUMBER: HCC4S30D010MB-HM43040830-41WWWB

Luminous Intensity Polar Plot





TEST NUMBER: P580290

CATALOG NUMBER: HCC4S30D010MB-HM43040830-41WWWB

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	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°	188571	188571	188571
5°	198268	188313	181268
10°	205232	186069	173043
15°	211517	182683	165648
20°	211751	175156	156110
25°	203778	163725	146359
30°	189229	150645	136673
35°	169610	135625	126470
40°	148827	121020	116914
45°	130078	107139	107820
50°	114847	93758	97174
55°	101265	83137	87352
60°	90511	73563	76499
65°	80203	64735	64735
70°	70036	55214	55214
75°	59810	46752	52375
80°	47449	41838	47449
85°	30427	36088	44438



TEST NUMBER: P580290
 CATALOG NUMBER: HCC4S30D010MB-HM43040830-41WWWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.8	4.9
10°-20°	407.9	13.8
20°-30°	571.4	19.3
30°-40°	588.7	19.9
40°-50°	501.2	16.9
50°-60°	371.4	12.5
60°-70°	233.1	7.9
70°-80°	115.8	3.9
80°-90°	30.4	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°	1124.2	37.9
0°-40°	1712.9	57.8
0°-60°	2585.5	87.2
0°-90°	2964.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2964.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1529	1529	1529	1529	1529	
5°	1601	1574	1521	1478	1464	154
15°	1656	1582	1431	1327	1297	466
25°	1497	1393	1203	1099	1075	685
35°	1126	1042	901	842	840	702
45°	746	695	614	602	618	579
55°	471	434	387	394	406	426
65°	275	247	222	218	222	274
75°	126	112	98	106	110	134
85°	22	22	26	29	31	28
90°	0	0	0	0	0	

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



TEST NUMBER: P580290

CATALOG NUMBER: HCC4S30D010MB-HM43040830-41WWWB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1528.8	1528.8	1528.8	1528.8	1528.8	1528.8	1528.8	1528.8	1528.8
2.5°	1562.1	1556.2	1548.4	1534.6	1520.9	1509.2	1497.3	1491.4	1489.5
5°	1601.3	1589.6	1573.9	1548.4	1520.9	1497.3	1477.7	1467.9	1464.0
7.5°	1628.8	1617.1	1591.5	1552.2	1513.1	1477.7	1446.3	1432.6	1428.6
10°	1638.6	1624.9	1589.6	1536.6	1485.6	1442.4	1407.1	1389.4	1381.6
12.5°	1646.5	1628.8	1583.7	1520.9	1458.1	1405.1	1367.8	1344.2	1338.4
15°	1656.4	1636.7	1581.7	1505.2	1430.6	1367.8	1326.6	1305.0	1297.2
17.5°	1646.5	1624.9	1560.1	1473.8	1389.4	1320.8	1275.5	1255.9	1248.1
20°	1613.2	1589.6	1516.9	1424.8	1334.4	1263.8	1218.7	1199.1	1189.3
22.5°	1562.1	1536.6	1462.0	1363.9	1271.7	1203.0	1159.8	1140.2	1134.3
25°	1497.3	1471.8	1393.3	1293.3	1203.0	1136.2	1099.0	1081.3	1075.4
27.5°	1420.8	1395.3	1318.7	1220.6	1134.3	1071.5	1042.0	1024.4	1020.5
30°	1328.6	1303.1	1228.5	1138.3	1057.7	998.8	975.4	961.6	959.6
32.5°	1226.5	1204.9	1136.2	1053.8	977.3	928.2	910.5	900.7	898.8
35°	1126.4	1102.8	1042.0	967.5	900.7	857.6	841.9	839.9	839.9
37.5°	1024.4	1000.9	951.8	883.1	826.1	786.9	781.0	783.1	783.1
40°	924.3	902.7	859.5	802.7	751.6	722.1	720.2	724.2	726.1
42.5°	830.1	812.5	773.2	724.2	681.0	657.4	659.4	667.2	673.1
45°	745.7	730.0	694.7	651.5	614.2	596.6	602.5	612.3	618.1
47.5°	669.2	655.5	622.1	582.8	551.5	539.6	547.5	559.3	567.2
50°	598.5	586.8	555.4	514.1	488.6	480.8	490.6	502.4	506.4
52.5°	535.8	524.0	490.6	455.3	435.6	431.7	441.5	451.3	457.3
55°	470.9	461.1	433.7	402.4	386.6	384.6	394.5	402.4	406.2
57.5°	418.0	408.2	382.7	355.2	341.4	339.5	349.3	355.2	357.1
60°	366.9	357.1	333.7	308.1	298.2	298.2	304.2	308.1	310.1
62.5°	319.9	310.1	288.4	266.9	259.0	259.0	259.0	261.0	266.9
65°	274.8	266.9	247.3	227.6	221.8	217.8	217.8	217.8	221.8
67.5°	233.5	225.7	210.0	192.3	186.5	180.6	178.6	182.5	182.5
70°	194.2	188.4	172.7	158.9	153.1	147.2	145.2	153.1	153.1
72.5°	158.9	153.1	143.3	129.5	123.6	121.7	125.5	129.5	131.5
75°	125.5	119.7	111.9	104.0	98.1	100.1	105.9	107.9	109.9
77.5°	94.2	92.3	84.4	78.5	78.5	80.4	84.4	88.3	90.2
80°	66.8	64.7	60.8	57.0	58.9	62.8	64.7	68.7	66.8
82.5°	41.2	41.2	39.3	39.3	41.2	45.1	47.2	49.1	51.0
85°	21.5	21.5	21.5	23.6	25.5	27.5	29.4	31.4	31.4
87.5°	5.9	7.9	7.9	9.8	11.7	11.7	13.8	13.8	13.8
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)