

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: P592742

Luminaire Tested: **HCC4S30D010BZ-HM43040850-41RWWH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592742
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: HCC4S30D010BZ-HM43040850-41RWWH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

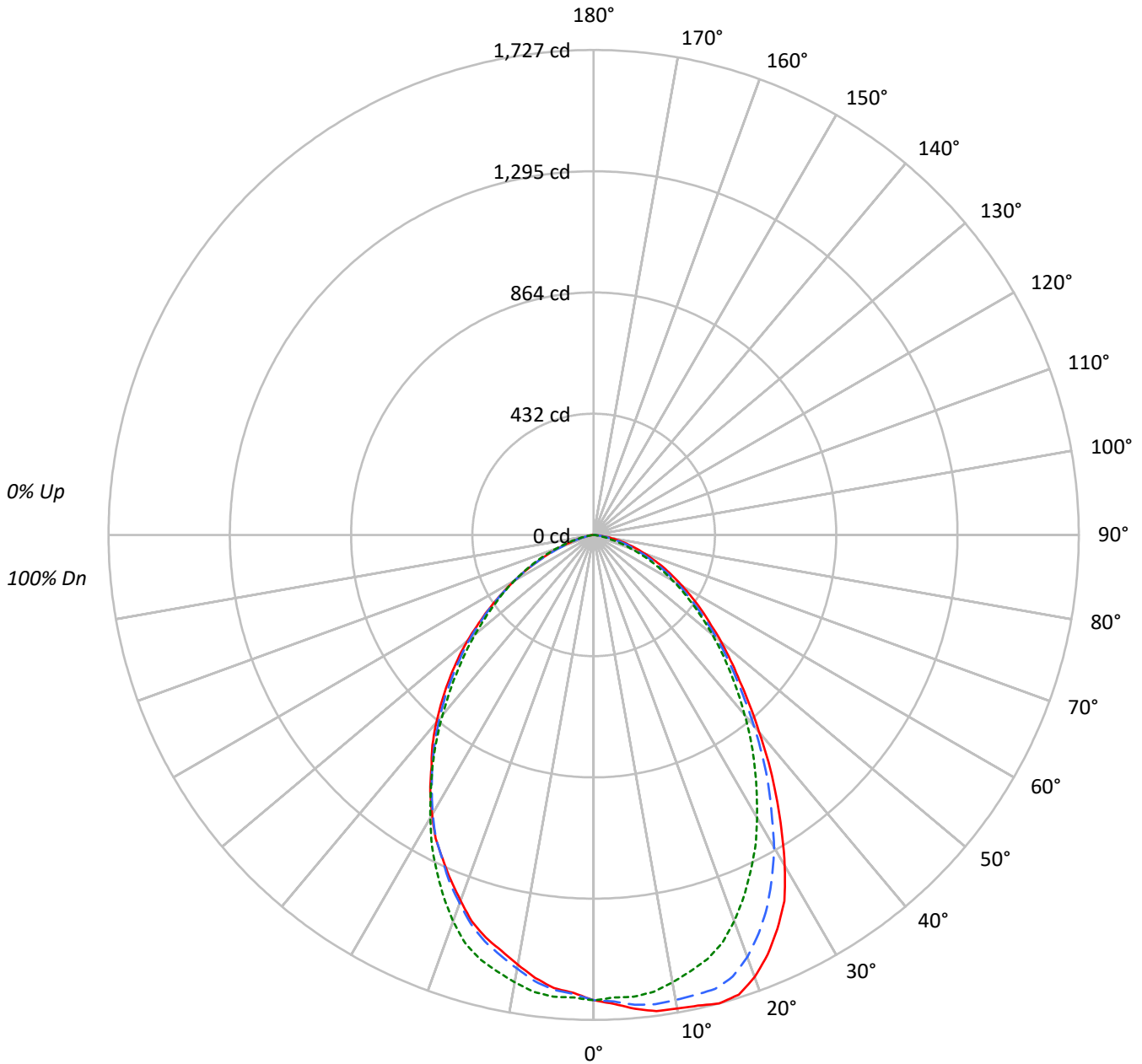
Lumens per Lamp: N/A
Luminaire Lumens: 3158.2 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P592742
CATALOG NUMBER: HCC4S30D010BZ-HM43040850-41RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P592742

CATALOG NUMBER: HCC4S30D010BZ-HM43040850-41RWWH

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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°	204384	204384	204384
5°	209746	204397	200571
10°	214488	202639	194636
15°	220532	199756	189515
20°	219929	192101	181837
25°	210651	179852	173115
30°	193787	165643	163891
35°	170468	150321	151556
40°	147475	134561	140197
45°	128176	119577	126729
50°	113753	105464	112583
55°	100943	92513	96491
60°	89870	80224	80224
65°	79911	66690	62487
70°	69026	50489	44539
75°	57903	33312	27450
80°	43827	16124	14562
85°	23351	5802	5802



TEST NUMBER: P592742
 CATALOG NUMBER: HCC4S30D010BZ-HM43040850-41RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.9	5.0
10°-20°	444.9	14.1
20°-30°	627.4	19.9
30°-40°	648.1	20.5
40°-50°	549.4	17.4
50°-60°	399.8	12.7
60°-70°	233.6	7.4
70°-80°	86.8	2.7
80°-90°	11.3	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°	1229.2	38.9
0°-40°	1877.3	59.4
0°-60°	2826.5	89.5
0°-90°	3158.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3158.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1657	1657	1657	1657	1657	
5°	1694	1680	1651	1626	1620	162
15°	1727	1673	1564	1498	1484	485
25°	1548	1461	1322	1274	1272	708
35°	1132	1083	998	1000	1006	707
45°	735	714	686	710	726	572
55°	469	447	430	445	449	422
65°	274	251	228	214	214	272
75°	122	101	70	56	58	130
85°	16	10	4	4	4	23
90°	0	0	0	0	0	

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



TEST NUMBER: P592742

CATALOG NUMBER: HCC4S30D010BZ-HM43040850-41RWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1657.0	1657.0	1657.0	1657.0	1657.0	1657.0	1657.0	1657.0	1657.0
2.5°	1671.4	1667.3	1663.1	1657.0	1648.8	1642.6	1636.4	1632.3	1632.3
5°	1694.0	1687.8	1679.6	1665.3	1650.8	1638.4	1626.1	1619.9	1619.9
7.5°	1710.5	1702.3	1685.8	1665.3	1640.6	1622.0	1603.5	1595.2	1591.2
10°	1712.5	1704.3	1681.6	1650.8	1617.9	1589.0	1568.5	1556.1	1554.0
12.5°	1716.7	1706.3	1677.6	1634.4	1591.2	1556.1	1533.5	1521.1	1517.0
15°	1727.0	1712.5	1673.4	1617.9	1564.3	1523.1	1498.4	1488.2	1484.1
17.5°	1716.7	1696.1	1648.8	1582.9	1523.1	1477.9	1453.2	1442.9	1442.9
20°	1675.5	1654.9	1599.4	1527.3	1463.5	1420.3	1395.6	1389.4	1385.3
22.5°	1617.9	1595.2	1535.5	1459.4	1395.6	1356.4	1340.0	1331.7	1329.7
25°	1547.8	1525.3	1461.4	1383.3	1321.5	1288.5	1274.1	1274.1	1272.0
27.5°	1469.7	1440.8	1375.0	1307.0	1247.3	1222.6	1216.4	1216.4	1218.6
30°	1360.6	1340.0	1284.5	1218.6	1163.0	1146.5	1146.5	1150.7	1150.7
32.5°	1243.3	1228.8	1179.4	1121.8	1078.6	1068.3	1072.4	1080.6	1082.7
35°	1132.1	1115.6	1082.7	1031.2	998.3	994.2	1000.3	1006.5	1006.5
37.5°	1023.0	1006.5	983.8	942.8	918.1	920.1	928.3	936.6	942.8
40°	915.9	903.6	887.2	854.2	835.7	844.0	854.2	862.5	870.7
42.5°	821.3	808.9	796.6	771.9	759.5	769.9	782.2	790.4	798.6
45°	734.8	726.5	714.2	693.7	685.5	695.8	710.2	718.3	726.5
47.5°	660.8	656.6	640.1	621.6	617.5	627.8	640.1	650.4	656.6
50°	592.8	586.7	572.2	553.7	549.6	566.0	574.3	580.5	586.7
52.5°	526.9	520.8	504.3	487.9	487.9	500.2	506.4	508.4	514.6
55°	469.4	463.2	446.7	434.3	430.2	440.5	444.7	444.7	448.7
57.5°	415.8	409.6	393.1	378.8	376.6	382.8	382.8	382.8	384.9
60°	364.3	358.1	341.7	329.4	325.2	327.2	325.2	323.2	325.2
62.5°	317.0	310.8	294.3	280.0	275.8	275.8	269.6	267.6	269.6
65°	273.8	263.5	251.1	236.8	228.5	222.3	214.1	214.1	214.1
67.5°	230.6	222.3	207.9	193.5	183.2	172.9	160.5	164.7	166.7
70°	191.4	185.2	168.7	154.4	140.0	127.6	117.3	121.5	123.5
72.5°	156.5	148.2	133.8	117.3	105.0	88.5	82.3	86.4	86.4
75°	121.5	113.3	100.8	84.4	69.9	55.6	55.6	57.6	57.6
77.5°	90.6	82.3	69.9	55.6	43.2	32.9	35.0	35.0	35.0
80°	61.7	55.6	45.2	32.9	22.7	18.5	18.5	18.5	20.5
82.5°	35.0	30.9	24.7	16.5	10.3	10.3	10.3	10.3	10.3
85°	16.5	12.3	10.3	6.2	4.1	4.1	4.1	4.1	4.1
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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)