

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: P580485

Luminaire Tested: **HCC4S35D010BZ-HM43040927-41RWWH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580485
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: HCC4S35D010BZ-HM43040927-41RWWH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

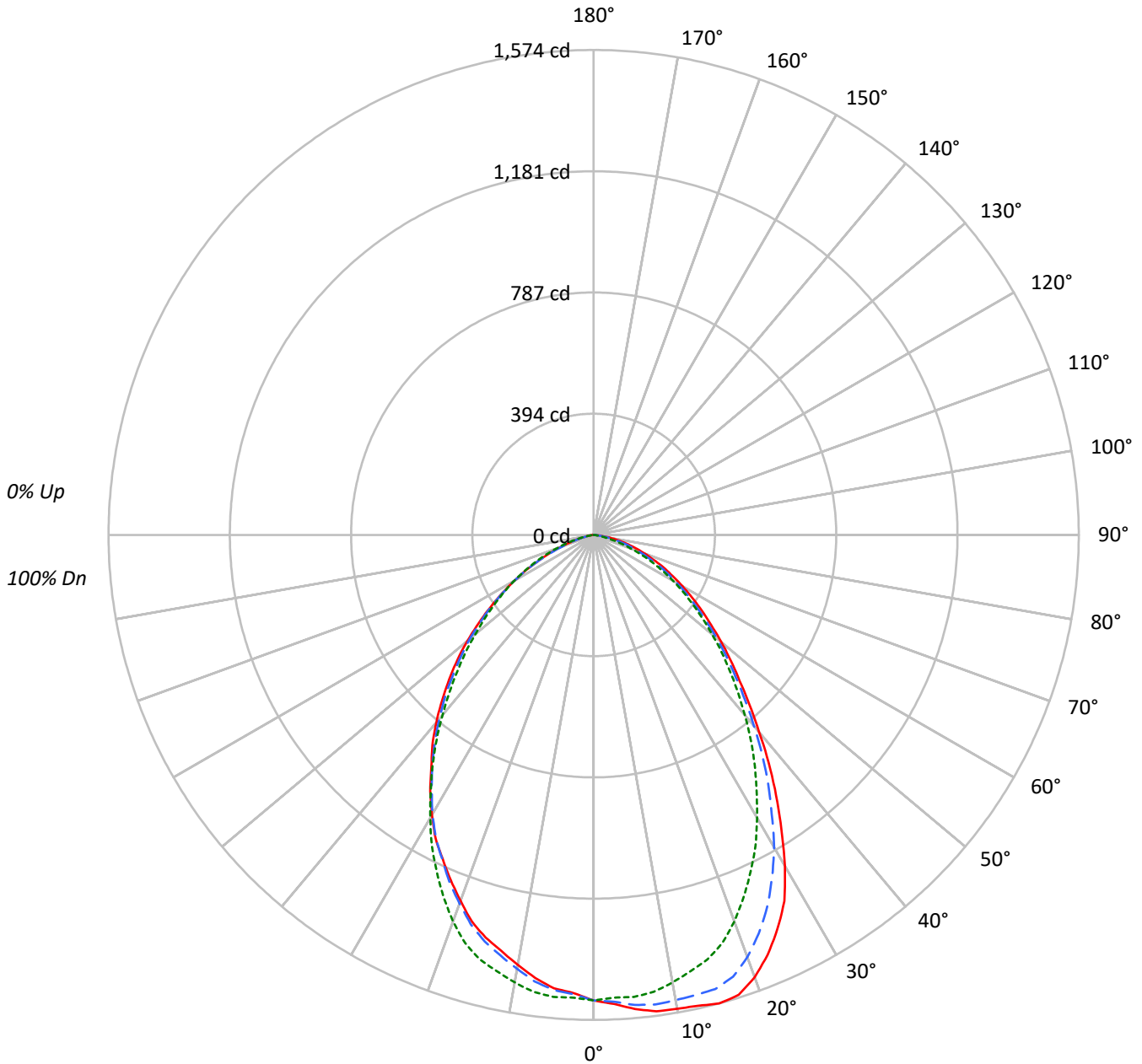
Lumens per Lamp: N/A
Luminaire Lumens: 2879.4 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 33.7
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: P580485
CATALOG NUMBER: HCC4S35D010BZ-HM43040927-41RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P580485

CATALOG NUMBER: HCC4S35D010BZ-HM43040927-41RWWH

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			100	
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88			88	
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77			77	
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67			67	
4	88	77	70	64	86	76	69	63	74	67	62	71	66	62	69	65	61	59			59	
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52			52	
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47			47	
7	71	58	51	45	69	58	50	45	56	49	45	55	49	44	54	48	44	42			42	
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38			38	
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	37	35			35	
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32			32	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	186351	186351	186351
5°	191235	186344	182865
10°	195550	184741	177465
15°	201059	182121	172787
20°	200515	175142	165783
25°	192073	163969	157832
30°	176667	151016	149406
35°	155426	137055	138185
40°	134465	122694	127831
45°	116873	109006	115565
50°	103717	96157	102624
55°	92018	84363	87976
60°	81926	73144	73144
65°	72848	60795	56942
70°	62967	46017	40608
75°	52756	30405	25020
80°	39991	14704	13354
85°	21370	5236	5236



TEST NUMBER: P580485
 CATALOG NUMBER: HCC4S35D010BZ-HM43040927-41RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.1	5.0
10°-20°	405.6	14.1
20°-30°	572.0	19.9
30°-40°	590.9	20.5
40°-50°	500.9	17.4
50°-60°	364.5	12.7
60°-70°	212.9	7.4
70°-80°	79.2	2.7
80°-90°	10.3	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°	1120.7	38.9
0°-40°	1711.6	59.4
0°-60°	2577.0	89.5
0°-90°	2879.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2879.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1511	1511	1511	1511	1511	
5°	1544	1531	1505	1483	1477	148
15°	1574	1526	1426	1366	1353	443
25°	1411	1332	1205	1162	1160	645
35°	1032	987	910	912	918	645
45°	670	651	625	647	662	521
55°	428	407	392	405	409	385
65°	250	229	208	195	195	248
75°	111	92	64	51	52	119
85°	15	9	4	4	4	21
90°	0	0	0	0	0	

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



TEST NUMBER: P580485

CATALOG NUMBER: HCC4S35D010BZ-HM43040927-41RWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1510.8	1510.8	1510.8	1510.8	1510.8	1510.8	1510.8	1510.8	1510.8
2.5°	1523.8	1520.1	1516.4	1510.8	1503.2	1497.6	1492.0	1488.2	1488.2
5°	1544.5	1538.9	1531.3	1518.2	1505.0	1493.8	1482.6	1476.9	1476.9
7.5°	1559.6	1552.0	1537.0	1518.2	1495.7	1478.8	1461.9	1454.5	1450.6
10°	1561.3	1553.9	1533.2	1505.0	1475.0	1448.8	1430.1	1418.7	1416.9
12.5°	1565.2	1555.7	1529.5	1490.1	1450.6	1418.7	1398.1	1386.9	1383.1
15°	1574.5	1561.3	1525.7	1475.0	1426.2	1388.7	1366.2	1356.8	1353.1
17.5°	1565.2	1546.4	1503.2	1443.1	1388.7	1347.5	1325.0	1315.5	1315.5
20°	1527.6	1508.9	1458.2	1392.5	1334.3	1294.8	1272.4	1266.7	1263.0
22.5°	1475.0	1454.5	1399.9	1330.6	1272.4	1236.7	1221.7	1214.3	1212.3
25°	1411.3	1390.6	1332.4	1261.1	1204.8	1174.8	1161.7	1161.7	1159.7
27.5°	1339.9	1313.6	1253.6	1191.7	1137.3	1114.8	1109.2	1109.2	1111.0
30°	1240.4	1221.7	1171.1	1111.0	1060.3	1045.3	1045.3	1049.0	1049.0
32.5°	1133.6	1120.4	1075.3	1022.7	983.4	973.9	977.8	985.3	987.1
35°	1032.2	1017.1	987.1	940.2	910.2	906.4	912.0	917.7	917.7
37.5°	932.7	917.7	897.1	859.5	837.0	838.8	846.4	853.9	859.5
40°	835.1	823.9	808.8	778.8	762.0	769.4	778.8	786.4	793.9
42.5°	748.8	737.6	726.2	703.7	692.5	701.8	713.2	720.6	728.1
45°	670.0	662.5	651.2	632.5	624.9	634.3	647.4	655.0	662.5
47.5°	602.5	598.6	583.7	566.7	563.0	572.3	583.7	593.0	598.6
50°	540.5	534.8	521.8	504.8	501.1	516.0	523.6	529.2	534.8
52.5°	480.4	474.8	459.8	444.8	444.8	456.0	461.6	463.5	469.2
55°	427.9	422.3	407.2	396.0	392.3	401.6	405.3	405.3	409.1
57.5°	379.1	373.5	358.4	345.3	343.4	349.1	349.1	349.1	350.9
60°	332.1	326.5	311.6	300.2	296.5	298.4	296.5	294.6	296.5
62.5°	289.0	283.4	268.4	255.3	251.4	251.4	245.8	244.0	245.8
65°	249.6	240.2	229.0	215.8	208.3	202.7	195.1	195.1	195.1
67.5°	210.2	202.7	189.5	176.4	167.0	157.6	146.3	150.2	152.0
70°	174.6	168.9	153.9	140.7	127.6	116.3	107.0	110.7	112.6
72.5°	142.6	135.1	122.0	107.0	95.8	80.7	75.1	78.8	78.8
75°	110.7	103.2	91.9	77.0	63.8	50.7	50.7	52.5	52.5
77.5°	82.6	75.1	63.8	50.7	39.5	30.0	31.9	31.9	31.9
80°	56.3	50.7	41.3	30.0	20.7	16.9	16.9	16.9	18.8
82.5°	31.9	28.1	22.5	15.1	9.3	9.3	9.3	9.3	9.3
85°	15.1	11.2	9.3	5.6	3.7	3.7	3.7	3.7	3.7
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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)