

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: P580447

Luminaire Tested: **HCC4S35D010BZ-HM43040835-41WDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580447
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S35D010BZ-HM43040835-41WDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

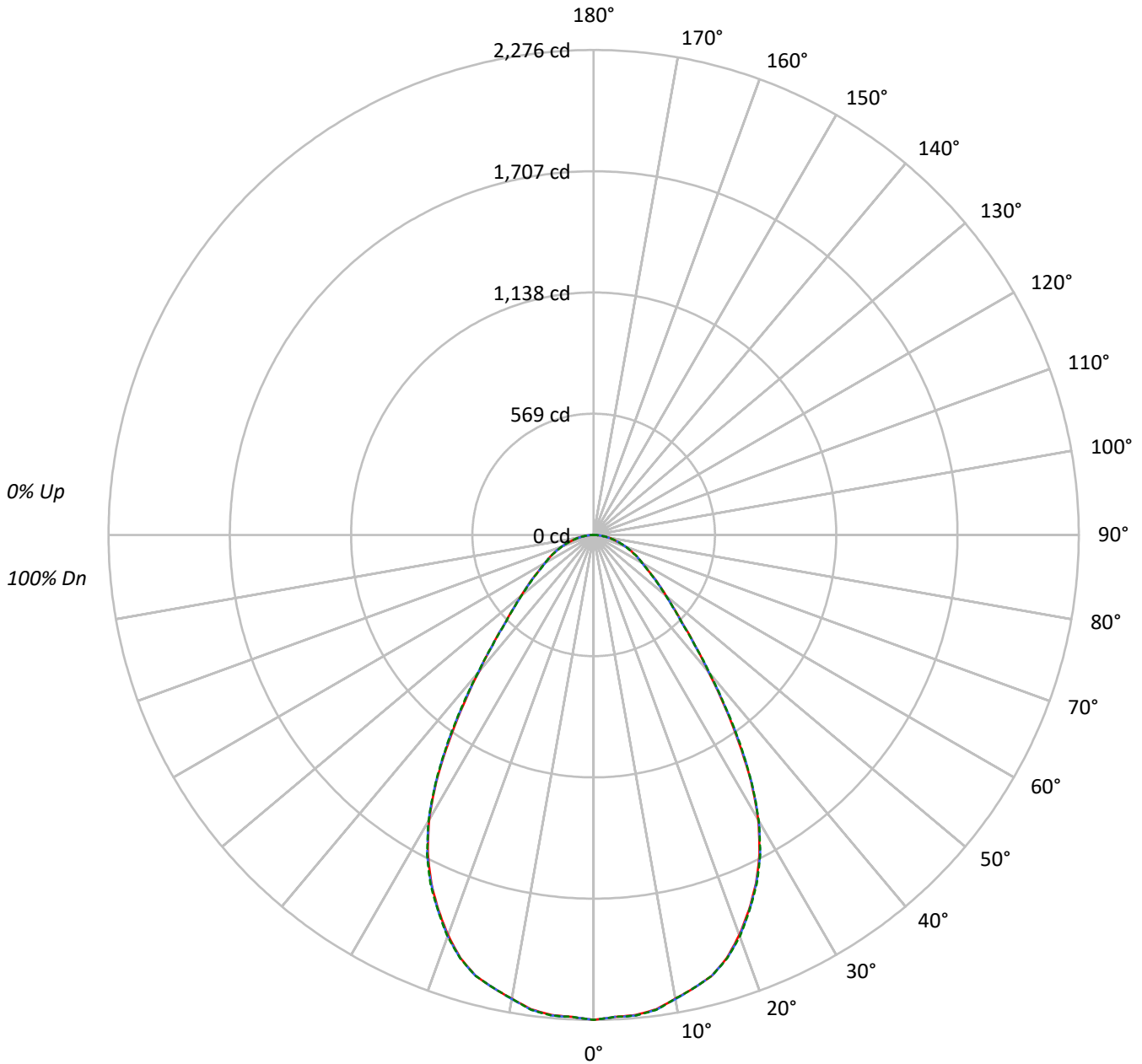
Lumens per Lamp: N/A
Luminaire Lumens: 3511.7 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580447
CATALOG NUMBER: HCC4S35D010BZ-HM43040835-41WDW

Luminous Intensity Polar Plot



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



TEST NUMBER: P580447

CATALOG NUMBER: HCC4S35D010BZ-HM43040835-41WDW

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	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89								
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78								
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69								
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	68	64	62								
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56								
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51								
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46								
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42								
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39								
10	61	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	280735	280735	280735
5°	280061	280358	280358
10°	276799	277100	276799
15°	273501	273501	273501
20°	262261	262878	263193
25°	245301	245628	246267
30°	219808	220477	220477
35°	178449	179880	180226
40°	134690	135431	135801
45°	103145	102761	102761
50°	85008	84547	84547
55°	72965	72471	72471
60°	65102	64534	64534
65°	61203	61203	61203
70°	56909	56909	56909
75°	51660	52756	51660
80°	48515	46881	48515
85°	40051	40051	40051



TEST NUMBER: P580447
 CATALOG NUMBER: HCC4S35D010BZ-HM43040835-41WDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.4	6.1
10°-20°	600.1	17.1
20°-30°	824.6	23.5
30°-40°	741.5	21.1
40°-50°	468.5	13.3
50°-60°	305.9	8.7
60°-70°	207.2	5.9
70°-80°	116.7	3.3
80°-90°	32.8	0.9
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°	1639.2	46.7
0°-40°	2380.7	67.8
0°-60°	3155.1	89.8
0°-90°	3511.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3511.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2276	2276	2276	2276	2276	
5°	2262	2262	2264	2264	2264	214
15°	2142	2142	2142	2142	2142	600
25°	1802	1805	1805	1810	1810	823
35°	1185	1190	1195	1199	1197	738
45°	591	589	589	589	589	469
55°	339	339	337	339	337	307
65°	210	210	210	210	210	208
75°	108	111	111	111	108	116
85°	28	28	28	28	28	33
90°	0	0	0	0	0	



TEST NUMBER: P580447

CATALOG NUMBER: HCC4S35D010BZ-HM43040835-41WDW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2276.0	2276.0	2276.0	2276.0	2276.0
2.5°	2264.3	2264.3	2264.3	2264.3	2264.3
5°	2261.9	2261.9	2264.3	2264.3	2264.3
7.5°	2245.4	2247.8	2247.8	2247.8	2247.8
10°	2210.0	2210.0	2212.4	2212.4	2210.0
12.5°	2177.1	2177.1	2177.1	2179.4	2177.1
15°	2141.8	2141.8	2141.8	2141.8	2141.8
17.5°	2080.5	2082.9	2082.9	2082.9	2082.9
20°	1998.0	2002.7	2002.7	2005.1	2005.1
22.5°	1903.7	1906.1	1908.4	1910.8	1908.4
25°	1802.4	1804.8	1804.8	1809.5	1809.5
27.5°	1684.7	1687.0	1691.7	1691.7	1691.7
30°	1543.3	1545.6	1548.0	1548.0	1548.0
32.5°	1376.0	1376.0	1380.7	1383.1	1380.7
35°	1185.1	1189.9	1194.6	1199.3	1196.9
37.5°	1003.7	1008.5	1010.8	1010.8	1013.2
40°	836.5	841.1	841.1	845.8	843.4
42.5°	704.5	702.2	702.2	706.9	704.5
45°	591.3	589.1	589.1	589.1	589.1
47.5°	508.9	506.6	506.6	506.6	506.6
50°	443.0	440.6	440.6	440.6	440.6
52.5°	388.8	386.4	386.4	386.4	384.1
55°	339.3	339.3	337.0	339.3	337.0
57.5°	294.5	294.5	294.5	294.5	294.5
60°	263.9	261.6	261.6	261.6	261.6
62.5°	235.6	235.6	235.6	235.6	235.6
65°	209.7	209.7	209.7	209.7	209.7
67.5°	183.8	181.4	183.8	183.8	181.4
70°	157.8	155.6	157.8	157.8	157.8
72.5°	132.0	132.0	132.0	134.3	132.0
75°	108.4	110.7	110.7	110.7	108.4
77.5°	87.2	89.6	87.2	87.2	87.2
80°	68.3	66.0	66.0	66.0	68.3
82.5°	47.1	47.1	47.1	47.1	47.1
85°	28.3	28.3	28.3	28.3	28.3
87.5°	11.8	11.8	11.8	11.8	11.8
90°	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)