

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: P580467

Luminaire Tested: **HCC4S35D010BZ-HM43040840-41RWWH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580467  
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-HM43040840-41RWWH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

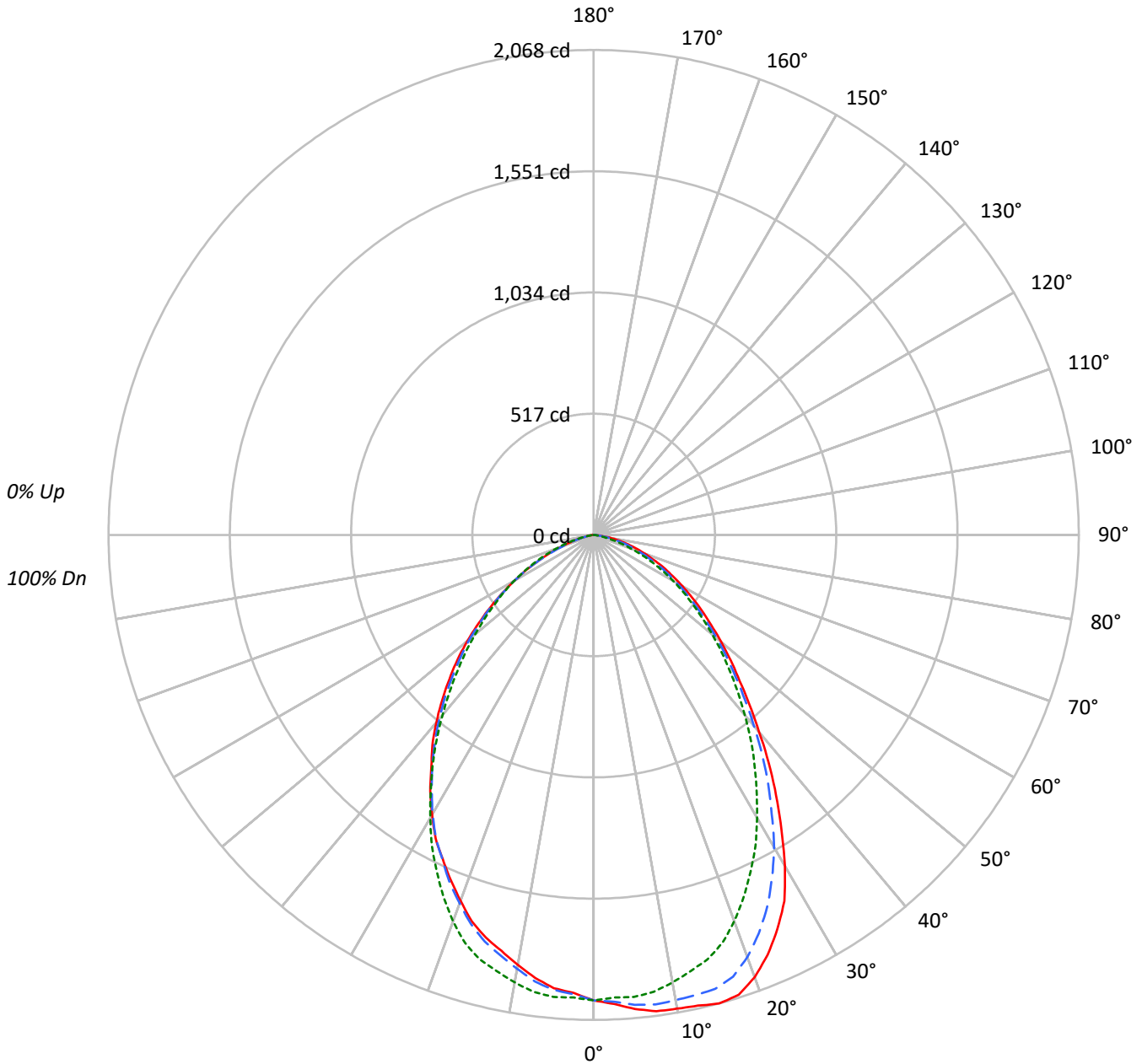
Lumens per Lamp: N/A  
Luminaire Lumens: 3782.8 lumens  
Efficiency: N/A  
Efficacy: 112.2 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.08 / 1.16  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P580467  
CATALOG NUMBER: HCC4S35D010BZ-HM43040840-41RWWH

### Luminous Intensity Polar Plot



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



TEST NUMBER: P580467

CATALOG NUMBER: HCC4S35D010BZ-HM43040840-41RWWH

**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								
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°	244792	244792	244792
5°	251224	244811	240229
10°	256910	242706	233125
15°	264141	239265	226981
20°	263416	230089	217776
25°	252310	215414	207357
30°	232099	198401	196279
35°	204183	180045	181536
40°	176651	161161	167908
45°	153522	143213	151813
50°	136243	126303	134823
55°	120878	110792	115588
60°	107631	96111	96111
65°	95701	79882	74833
70°	82694	60479	53338
75°	69293	39984	32883
80°	52564	19250	17474
85°	27880	6935	6935



TEST NUMBER: P580467

CATALOG NUMBER: HCC4S35D010BZ-HM43040840-41RWWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.0	5.0
10°-20°	532.8	14.1
20°-30°	751.5	19.9
30°-40°	776.3	20.5
40°-50°	658.1	17.4
50°-60°	478.8	12.7
60°-70°	279.8	7.4
70°-80°	104.0	2.7
80°-90°	13.6	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°	1472.3	38.9
0°-40°	2248.5	59.4
0°-60°	3385.4	89.5
0°-90°	3782.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3782.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1985	1985	1985	1985	1985	
5°	2029	2012	1977	1948	1940	194
15°	2068	2004	1874	1795	1778	581
25°	1854	1750	1583	1526	1524	848
35°	1356	1297	1196	1198	1206	847
45°	880	856	821	850	870	685
55°	562	535	515	533	538	506
65°	328	301	274	256	256	325
75°	145	121	84	66	69	156
85°	20	12	5	5	5	27
90°	0	0	0	0	0	



TEST NUMBER: P580467

CATALOG NUMBER: HCC4S35D010BZ-HM43040840-41RWWH

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1984.6	1984.6	1984.6	1984.6	1984.6	1984.6	1984.6	1984.6	1984.6
2.5°	2001.8	1996.9	1992.1	1984.6	1974.8	1967.3	1959.9	1955.1	1955.1
5°	2029.0	2021.6	2011.7	1994.5	1977.2	1962.4	1947.7	1940.2	1940.2
7.5°	2048.7	2038.8	2019.2	1994.5	1964.9	1942.7	1920.5	1910.7	1905.7
10°	2051.2	2041.3	2014.2	1977.2	1937.8	1903.3	1878.7	1863.8	1861.3
12.5°	2056.1	2043.8	2009.3	1957.4	1905.7	1863.8	1836.7	1821.9	1816.9
15°	2068.5	2051.2	2004.3	1937.8	1873.7	1824.4	1794.8	1782.4	1777.5
17.5°	2056.1	2031.5	1974.8	1895.9	1824.4	1770.2	1740.5	1728.3	1728.3
20°	2006.8	1982.2	1915.6	1829.3	1752.9	1701.1	1671.5	1664.1	1659.1
22.5°	1937.8	1910.7	1839.2	1747.9	1671.5	1624.6	1605.0	1595.1	1592.6
25°	1853.9	1826.8	1750.4	1656.8	1582.8	1543.4	1526.1	1526.1	1523.6
27.5°	1760.3	1725.8	1646.9	1565.5	1494.0	1464.5	1457.0	1457.0	1459.5
30°	1629.6	1605.0	1538.4	1459.5	1393.0	1373.2	1373.2	1378.1	1378.1
32.5°	1489.1	1471.9	1412.6	1343.6	1291.8	1279.6	1284.5	1294.3	1296.8
35°	1356.0	1336.2	1296.8	1235.2	1195.7	1190.8	1198.2	1205.6	1205.6
37.5°	1225.3	1205.6	1178.4	1129.2	1099.6	1102.0	1111.9	1121.8	1129.2
40°	1097.1	1082.3	1062.5	1023.2	1000.9	1010.8	1023.2	1033.0	1042.8
42.5°	983.7	968.9	954.1	924.5	909.8	922.0	936.9	946.7	956.5
45°	880.1	870.3	855.5	830.9	821.0	833.3	850.5	860.4	870.3
47.5°	791.4	786.5	766.7	744.5	739.6	752.0	766.7	779.0	786.5
50°	710.0	702.6	685.4	663.2	658.2	678.0	687.9	695.2	702.6
52.5°	631.1	623.7	604.0	584.3	584.3	599.1	606.5	609.0	616.3
55°	562.1	554.7	535.0	520.2	515.2	527.6	532.6	532.6	537.5
57.5°	498.0	490.6	470.8	453.6	451.2	458.6	458.6	458.6	461.1
60°	436.3	428.9	409.2	394.4	389.6	391.9	389.6	387.1	389.6
62.5°	379.7	372.3	352.6	335.3	330.3	330.3	322.9	320.5	322.9
65°	327.9	315.6	300.8	283.5	273.7	266.3	256.4	256.4	256.4
67.5°	276.2	266.3	249.0	231.8	219.4	207.0	192.3	197.3	199.7
70°	229.3	221.9	202.2	184.9	167.7	152.9	140.5	145.4	147.9
72.5°	187.4	177.5	160.3	140.5	125.8	106.0	98.6	103.5	103.5
75°	145.4	135.6	120.8	101.0	83.9	66.5	66.5	69.0	69.0
77.5°	108.5	98.6	83.9	66.5	51.8	39.5	41.9	41.9	41.9
80°	74.0	66.5	54.3	39.5	27.1	22.1	22.1	22.1	24.6
82.5°	41.9	37.0	29.6	19.7	12.4	12.4	12.4	12.4	12.4
85°	19.7	14.8	12.4	7.4	4.9	4.9	4.9	4.9	4.9
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
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)