

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: P580452

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580452
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: HCC4S35D010BZ-HM43040835-41WWWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

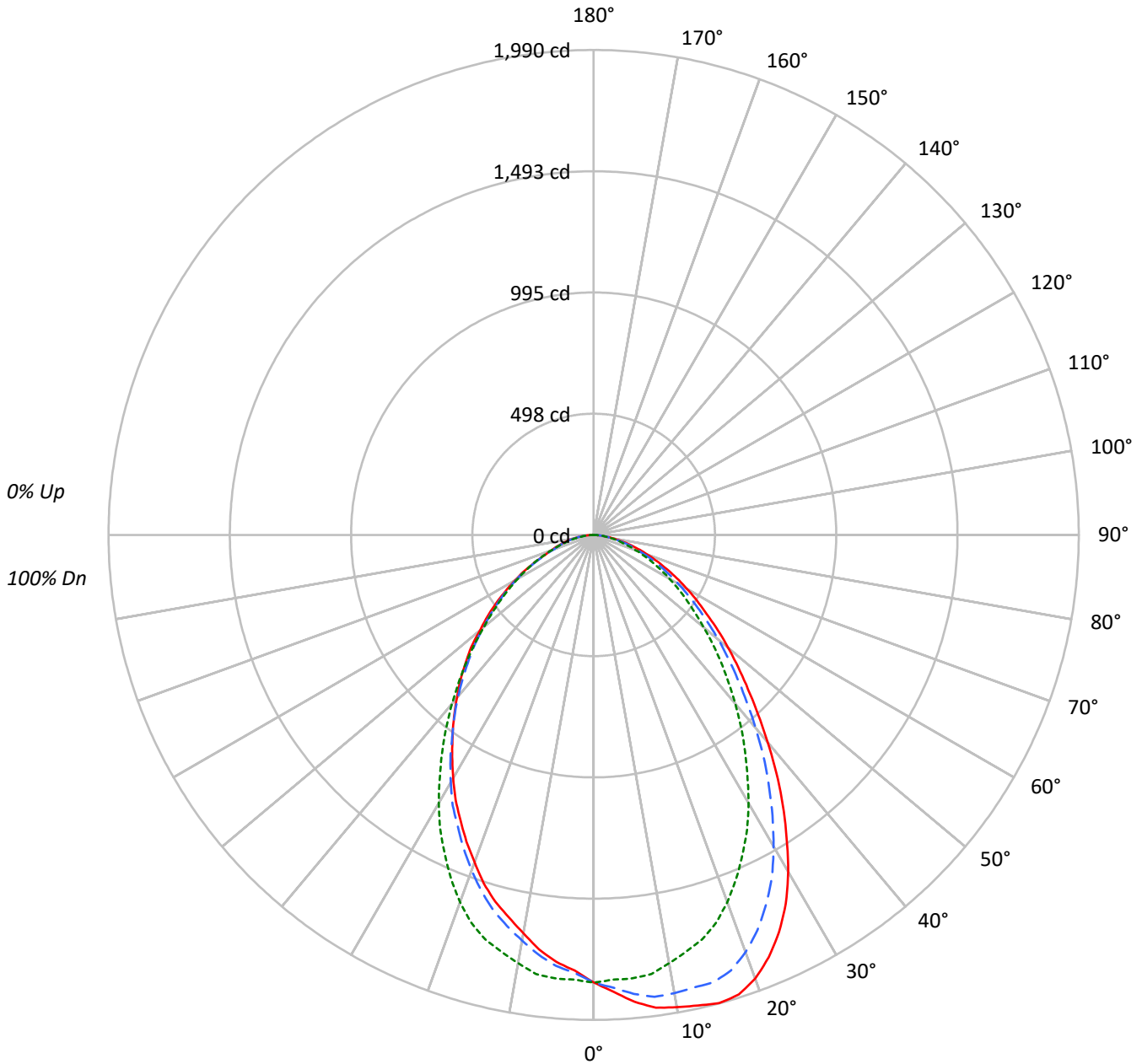
Lumens per Lamp: N/A
Luminaire Lumens: 3561.2 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P580452
CATALOG NUMBER: HCC4S35D010BZ-HM43040835-41WWWB

Luminous Intensity Polar Plot



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



TEST NUMBER: P580452

CATALOG NUMBER: HCC4S35D010BZ-HM43040835-41WWWB

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	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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87								
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75								
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66								
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	60	58								
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51								
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46								
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41								
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37								
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34								
10	58	45	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	226500	226500	226500
5°	238162	226189	217732
10°	246514	223506	207850
15°	254053	219434	198964
20°	254346	210399	187507
25°	244770	196660	175796
30°	227300	180968	164176
35°	203746	162925	151917
40°	178776	145365	140438
45°	156243	128700	129520
50°	137951	112640	116709
55°	121652	99846	104921
60°	108742	88389	91892
65°	96314	77752	77752
70°	84137	66321	66321
75°	71867	56188	62907
80°	56897	50220	56897
85°	36796	43448	53496



TEST NUMBER: P580452
 CATALOG NUMBER: HCC4S35D010BZ-HM43040835-41WWWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.0	4.9
10°-20°	489.9	13.8
20°-30°	686.4	19.3
30°-40°	707.2	19.9
40°-50°	602.1	16.9
50°-60°	446.1	12.5
60°-70°	280.0	7.9
70°-80°	139.1	3.9
80°-90°	36.5	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°	1350.3	37.9
0°-40°	2057.5	57.8
0°-60°	3105.6	87.2
0°-90°	3561.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3561.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1836	1836	1836	1836	1836	
5°	1924	1890	1827	1775	1758	185
15°	1990	1900	1718	1594	1558	559
25°	1798	1674	1445	1320	1292	823
35°	1353	1252	1082	1011	1009	844
45°	896	834	738	724	742	695
55°	566	521	464	474	488	511
65°	330	297	266	262	266	329
75°	151	134	118	127	132	161
85°	26	26	31	35	38	33
90°	0	0	0	0	0	

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



TEST NUMBER: P580452

CATALOG NUMBER: HCC4S35D010BZ-HM43040835-41WWWB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1836.3	1836.3	1836.3	1836.3	1836.3	1836.3	1836.3	1836.3	1836.3
2.5°	1876.3	1869.3	1859.9	1843.4	1826.8	1812.7	1798.5	1791.4	1789.2
5°	1923.5	1909.3	1890.5	1859.9	1826.8	1798.5	1775.0	1763.2	1758.5
7.5°	1956.4	1942.4	1911.7	1864.6	1817.4	1775.0	1737.3	1720.7	1716.0
10°	1968.2	1951.8	1909.3	1845.7	1784.5	1732.5	1690.2	1668.9	1659.5
12.5°	1977.7	1956.4	1902.3	1826.8	1751.4	1687.8	1643.0	1614.7	1607.7
15°	1989.5	1965.9	1899.9	1808.0	1718.4	1643.0	1593.5	1567.5	1558.1
17.5°	1977.7	1951.8	1873.9	1770.3	1668.9	1586.4	1532.2	1508.6	1499.2
20°	1937.7	1909.3	1822.1	1711.3	1602.9	1518.1	1463.8	1440.3	1428.5
22.5°	1876.3	1845.7	1756.1	1638.2	1527.5	1445.0	1393.1	1369.6	1362.5
25°	1798.5	1767.9	1673.6	1553.4	1445.0	1364.9	1320.0	1298.8	1291.7
27.5°	1706.6	1676.0	1584.1	1466.1	1362.5	1287.1	1251.7	1230.4	1225.7
30°	1595.9	1565.2	1475.6	1367.2	1270.6	1199.9	1171.5	1155.0	1152.7
32.5°	1473.2	1447.4	1364.9	1265.8	1173.9	1115.0	1093.8	1082.0	1079.6
35°	1353.1	1324.7	1251.7	1162.1	1082.0	1030.1	1011.3	1008.9	1008.9
37.5°	1230.4	1202.2	1143.2	1060.7	992.4	945.3	938.2	940.6	940.6
40°	1110.3	1084.3	1032.5	964.1	902.8	867.5	865.1	869.9	872.2
42.5°	997.1	975.9	928.8	869.9	817.9	789.7	792.0	801.4	808.5
45°	895.7	876.8	834.5	782.6	737.8	716.6	723.6	735.4	742.5
47.5°	803.8	787.4	747.2	700.1	662.4	648.2	657.7	671.8	681.3
50°	718.9	704.9	667.1	617.6	587.0	577.5	589.3	603.5	608.2
52.5°	643.5	629.3	589.3	546.8	523.3	518.6	530.4	542.1	549.2
55°	565.7	553.9	521.0	483.2	464.3	462.0	473.8	483.2	487.9
57.5°	502.1	490.3	459.6	426.7	410.1	407.8	419.6	426.7	429.0
60°	440.8	429.0	400.7	370.1	358.3	358.3	365.4	370.1	372.5
62.5°	384.2	372.5	346.5	320.6	311.1	311.1	311.1	313.5	320.6
65°	330.0	320.6	297.0	273.5	266.4	261.7	261.7	261.7	266.4
67.5°	280.6	271.1	252.2	231.0	223.9	216.8	214.5	219.2	219.2
70°	233.3	226.3	207.5	191.0	183.9	176.8	174.4	183.9	183.9
72.5°	191.0	183.9	172.1	155.6	148.5	146.1	150.8	155.6	157.9
75°	150.8	143.8	134.3	124.9	117.9	120.3	127.2	129.6	132.0
77.5°	113.2	110.8	101.4	94.3	94.3	96.7	101.4	106.1	108.5
80°	80.1	77.8	73.1	68.3	70.7	75.4	77.8	82.5	80.1
82.5°	49.5	49.5	47.1	47.1	49.5	54.2	56.5	58.9	61.3
85°	26.0	26.0	26.0	28.3	30.7	33.0	35.4	37.8	37.8
87.5°	7.1	9.4	9.4	11.8	14.2	14.2	16.5	16.5	16.5
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)