

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: P580524

Luminaire Tested: **HCC4W35D010SL-HM43040935-41WWWB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580524  
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: HCC4W35D010SL-HM43040935-41WWWB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

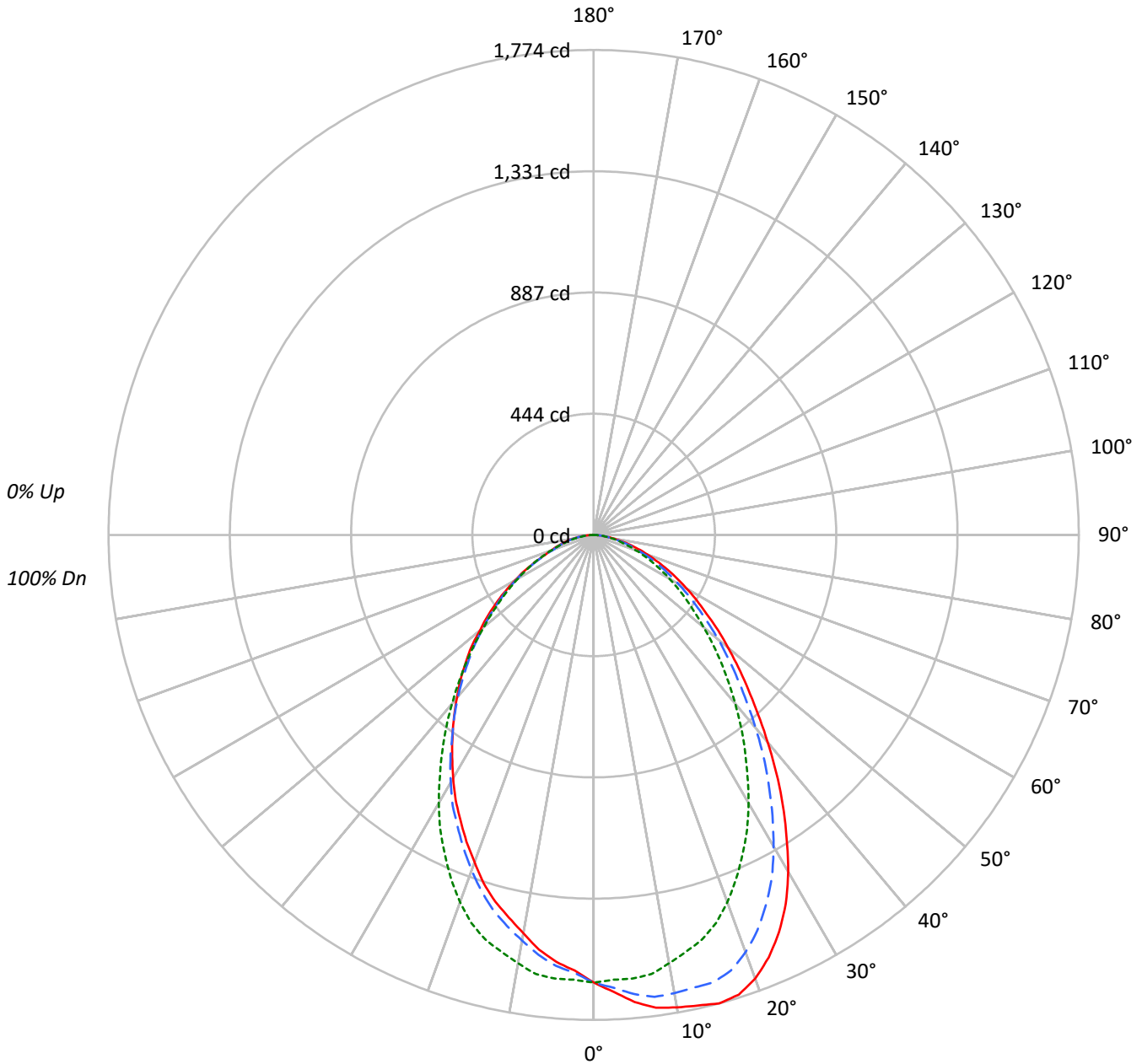
Lumens per Lamp: N/A  
Luminaire Lumens: 3175.0 lumens  
Efficiency: N/A  
Efficacy: 94.2 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.15  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (A<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: P580524  
CATALOG NUMBER: HCC4W35D010SL-HM43040935-41WWWB

### Luminous Intensity Polar Plot



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



TEST NUMBER: P580524

CATALOG NUMBER: HCC4W35D010SL-HM43040935-41WWWB

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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	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°	201929	201929	201929
5°	212333	201673	194120
10°	219798	199258	185305
15°	226509	195644	177396
20°	226755	187586	167175
25°	218231	175334	156743
30°	202646	161342	146372
35°	181641	145247	135444
40°	159390	129602	125206
45°	139305	114745	115477
50°	123003	100417	104044
55°	108448	89029	93545
60°	96950	78793	81901
65°	85895	69317	69317
70°	75049	59109	59109
75°	64099	50088	56092
80°	50788	44821	50788
85°	32833	38636	47552



TEST NUMBER: P580524  
 CATALOG NUMBER: HCC4W35D010SL-HM43040935-41WWWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.1	4.9
10°-20°	436.8	13.8
20°-30°	612.0	19.3
30°-40°	630.5	19.9
40°-50°	536.8	16.9
50°-60°	397.7	12.5
60°-70°	249.6	7.9
70°-80°	124.0	3.9
80°-90°	32.6	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°	1203.9	37.9
0°-40°	1834.4	57.8
0°-60°	2768.8	87.2
0°-90°	3175.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3175.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1637	1637	1637	1637	1637	
5°	1715	1686	1629	1582	1568	165
15°	1774	1694	1532	1421	1389	499
25°	1604	1492	1288	1177	1152	733
35°	1206	1116	965	902	900	752
45°	799	744	658	645	662	620
55°	504	464	414	422	435	456
65°	294	265	238	233	238	294
75°	134	120	105	114	118	144
85°	23	23	27	32	34	30
90°	0	0	0	0	0	



TEST NUMBER: P580524

CATALOG NUMBER: HCC4W35D010SL-HM43040935-41WWWB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1637.1	1637.1	1637.1	1637.1	1637.1	1637.1	1637.1	1637.1	1637.1
2.5°	1672.8	1666.6	1658.1	1643.5	1628.8	1616.1	1603.5	1597.2	1595.2
5°	1714.9	1702.3	1685.6	1658.1	1628.8	1603.5	1582.5	1572.0	1567.8
7.5°	1744.3	1731.7	1704.4	1662.4	1620.4	1582.5	1548.9	1534.1	1530.0
10°	1754.9	1740.2	1702.3	1645.5	1590.9	1544.7	1506.8	1488.0	1479.5
12.5°	1763.2	1744.3	1696.0	1628.8	1561.5	1504.8	1464.8	1439.6	1433.3
15°	1773.8	1752.8	1693.9	1611.9	1532.1	1464.8	1420.7	1397.6	1389.2
17.5°	1763.2	1740.2	1670.8	1578.3	1488.0	1414.4	1366.0	1345.0	1336.7
20°	1727.5	1702.3	1624.5	1525.7	1429.1	1353.4	1305.1	1284.1	1273.6
22.5°	1672.8	1645.5	1565.7	1460.6	1361.8	1288.3	1242.0	1221.0	1214.7
25°	1603.5	1576.2	1492.1	1385.0	1288.3	1216.8	1176.9	1157.9	1151.7
27.5°	1521.6	1494.2	1412.3	1307.2	1214.7	1147.5	1115.9	1097.0	1092.9
30°	1422.8	1395.4	1315.6	1219.0	1132.8	1069.7	1044.5	1029.8	1027.7
32.5°	1313.5	1290.4	1216.8	1128.6	1046.6	994.1	975.2	964.6	962.6
35°	1206.3	1181.1	1115.9	1036.1	964.6	918.4	901.6	899.5	899.5
37.5°	1097.0	1071.8	1019.2	945.7	884.8	842.8	836.5	838.5	838.5
40°	989.9	966.8	920.6	859.5	804.9	773.4	771.3	775.4	777.6
42.5°	889.0	870.1	828.1	775.4	729.3	704.1	706.1	714.5	720.8
45°	798.6	781.9	744.0	697.8	657.8	638.9	645.2	655.7	662.0
47.5°	716.7	701.9	666.2	624.2	590.5	578.0	586.4	599.0	607.4
50°	641.0	628.4	594.7	550.6	523.3	514.9	525.4	538.1	542.2
52.5°	573.7	561.1	525.4	487.6	466.6	462.3	472.9	483.3	489.7
55°	504.3	493.9	464.4	430.8	414.0	411.9	422.4	430.8	435.0
57.5°	447.7	437.1	409.8	380.4	365.6	363.6	374.1	380.4	382.5
60°	393.0	382.5	357.3	330.0	319.4	319.4	325.7	330.0	332.0
62.5°	342.6	332.0	309.0	285.8	277.4	277.4	277.4	279.5	285.8
65°	294.3	285.8	264.8	243.8	237.5	233.2	233.2	233.2	237.5
67.5°	250.1	241.7	224.9	205.9	199.6	193.3	191.2	195.5	195.5
70°	208.1	201.8	184.9	170.3	163.9	157.6	155.6	163.9	163.9
72.5°	170.3	163.9	153.4	138.7	132.4	130.3	134.5	138.7	140.8
75°	134.5	128.2	119.8	111.4	105.1	107.2	113.5	115.5	117.7
77.5°	100.8	98.8	90.4	84.1	84.1	86.2	90.4	94.5	96.7
80°	71.5	69.4	65.2	60.9	63.1	67.2	69.4	73.5	71.5
82.5°	44.2	44.2	42.0	42.0	44.2	48.3	50.5	52.5	54.6
85°	23.2	23.2	23.2	25.2	27.3	29.4	31.5	33.6	33.6
87.5°	6.3	8.4	8.4	10.5	12.6	12.6	14.7	14.7	14.7
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)