

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: P580595

Luminaire Tested: **HCC4W40D010MW-HM43040835-41WWW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580595
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W40D010MW-HM43040835-41WWW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

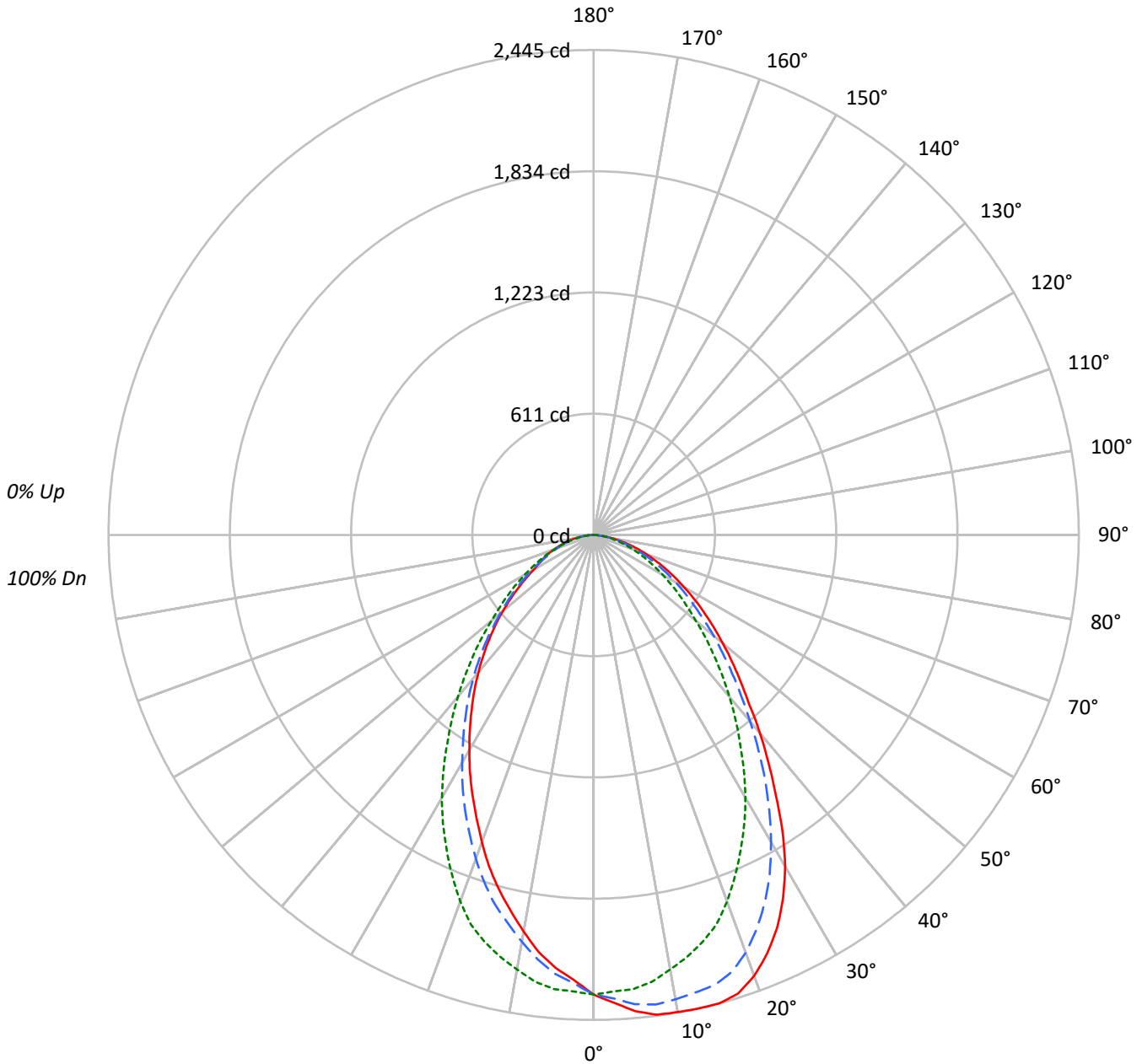
Lumens per Lamp: N/A
Luminaire Lumens: 4138.1 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.03 / 1.1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 41
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: P580595
CATALOG NUMBER: HCC4W40D010MW-HM43040835-41WWW

Luminous Intensity Polar Plot



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



TEST NUMBER: P580595

CATALOG NUMBER: HCC4W40D010MW-HM43040835-41WWW

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	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87								
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76								
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66								
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58								
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52								
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	47								
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	53	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	42	37	47	41	37	46	41	37	35								
10	59	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°	285816	285816	285816
5°	298386	284556	271382
10°	305944	278615	254380
15°	312257	271177	236022
20°	310605	258008	216135
25°	297562	238564	196646
30°	274899	217828	178219
35°	240954	193748	161313
40°	209820	171193	145301
45°	182601	149318	129816
50°	162686	128683	114559
55°	145393	113157	99072
60°	129809	98874	85405
65°	115373	86741	81166
70°	101267	74724	75734
75°	85735	63670	70151
80°	65847	54197	63929
85°	38494	42457	53920



TEST NUMBER: P580595
 CATALOG NUMBER: HCC4W40D010MW-HM43040835-41WWW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.2	5.2
10°-20°	599.1	14.5
20°-30°	818.6	19.8
30°-40°	821.9	19.9
40°-50°	680.0	16.4
50°-60°	492.8	11.9
60°-70°	312.1	7.5
70°-80°	157.8	3.8
80°-90°	38.6	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°	1634.9	39.5
0°-40°	2456.8	59.4
0°-60°	3629.5	87.7
0°-90°	4138.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4138.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2317	2317	2317	2317	2317	
5°	2410	2374	2298	2222	2192	231
15°	2445	2350	2124	1927	1848	688
25°	2186	2042	1753	1532	1445	999
35°	1600	1505	1287	1129	1071	1003
45°	1047	987	856	772	744	814
55°	676	616	526	480	461	608
65°	395	352	297	267	278	394
75°	180	155	134	139	147	192
85°	27	27	30	35	38	38
90°	0	0	0	0	0	



TEST NUMBER: P580595

CATALOG NUMBER: HCC4W40D010MW-HM43040835-41WWW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2317.2	2317.2	2317.2	2317.2	2317.2	2317.2	2317.2	2317.2	2317.2
2.5°	2360.8	2352.6	2339.1	2322.7	2303.5	2281.8	2262.7	2251.8	2246.4
5°	2409.9	2399.1	2374.5	2339.1	2298.2	2257.2	2221.8	2200.0	2191.8
7.5°	2439.9	2423.5	2388.1	2333.6	2270.9	2210.9	2159.2	2129.1	2120.9
10°	2442.7	2423.5	2377.2	2303.5	2224.5	2145.5	2082.8	2039.1	2031.0
12.5°	2445.3	2420.8	2363.5	2276.3	2178.2	2080.0	2003.7	1951.9	1938.3
15°	2445.3	2420.8	2350.0	2246.4	2123.6	2011.9	1927.3	1867.4	1848.3
17.5°	2423.5	2396.2	2311.7	2191.8	2058.3	1932.8	1834.7	1772.0	1752.9
20°	2366.3	2336.3	2240.9	2110.1	1965.6	1834.7	1736.5	1671.1	1646.6
22.5°	2284.5	2249.1	2148.2	2006.5	1862.0	1728.4	1633.0	1564.8	1542.9
25°	2186.4	2151.0	2041.9	1902.9	1752.9	1627.5	1532.1	1469.4	1444.9
27.5°	2066.5	2028.2	1922.0	1783.0	1643.8	1518.5	1431.2	1374.0	1349.5
30°	1930.1	1889.2	1788.3	1654.8	1529.4	1409.4	1324.9	1278.6	1251.3
32.5°	1772.0	1736.5	1646.6	1526.7	1409.4	1294.9	1224.0	1183.1	1161.4
35°	1600.2	1581.2	1504.8	1401.2	1286.7	1191.3	1128.6	1090.5	1071.3
37.5°	1447.5	1428.5	1363.0	1275.8	1174.9	1087.7	1035.9	1003.2	986.8
40°	1303.1	1286.7	1224.0	1150.5	1063.2	986.8	943.2	918.7	902.4
42.5°	1161.4	1153.2	1101.4	1033.2	956.9	891.4	856.0	836.9	823.3
45°	1046.8	1035.9	986.8	921.5	856.0	801.5	771.5	757.9	744.2
47.5°	946.0	932.3	880.5	823.3	763.3	714.3	686.9	673.4	667.9
50°	847.8	834.2	787.8	730.6	670.6	635.2	613.4	599.7	597.0
52.5°	760.6	746.9	695.1	640.7	594.4	564.3	545.3	531.6	526.2
55°	676.1	659.7	616.1	564.3	526.2	498.8	479.8	466.2	460.7
57.5°	599.7	583.4	545.3	496.2	460.7	436.2	419.8	406.3	400.8
60°	526.2	512.5	477.1	430.7	400.8	378.9	362.5	351.7	346.2
62.5°	458.0	447.1	411.6	370.7	346.2	327.1	313.5	302.6	308.1
65°	395.3	384.4	351.7	316.2	297.2	278.1	267.1	267.1	278.1
67.5°	335.3	324.4	297.2	267.1	250.8	237.2	229.0	237.2	245.4
70°	280.8	269.9	245.4	220.8	207.2	196.3	196.3	204.5	210.0
72.5°	229.0	218.1	199.0	179.9	169.0	160.9	169.0	174.4	179.9
75°	179.9	171.7	155.4	141.8	133.6	130.8	139.0	144.5	147.2
77.5°	133.6	128.1	117.3	106.3	100.9	103.6	111.8	114.5	117.3
80°	92.7	90.0	81.8	76.3	76.3	79.0	84.5	87.2	90.0
82.5°	57.3	57.3	51.8	49.1	51.8	57.3	60.0	62.7	62.7
85°	27.2	30.0	27.2	27.2	30.0	35.4	35.4	38.1	38.1
87.5°	8.2	8.2	10.9	10.9	13.7	13.7	13.7	13.7	16.4
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)