

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: P581474

Luminaire Tested: **HCC4W07D010MB-HM40525840-41RWWC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581474
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W07D010MB-HM40525840-41RWWC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

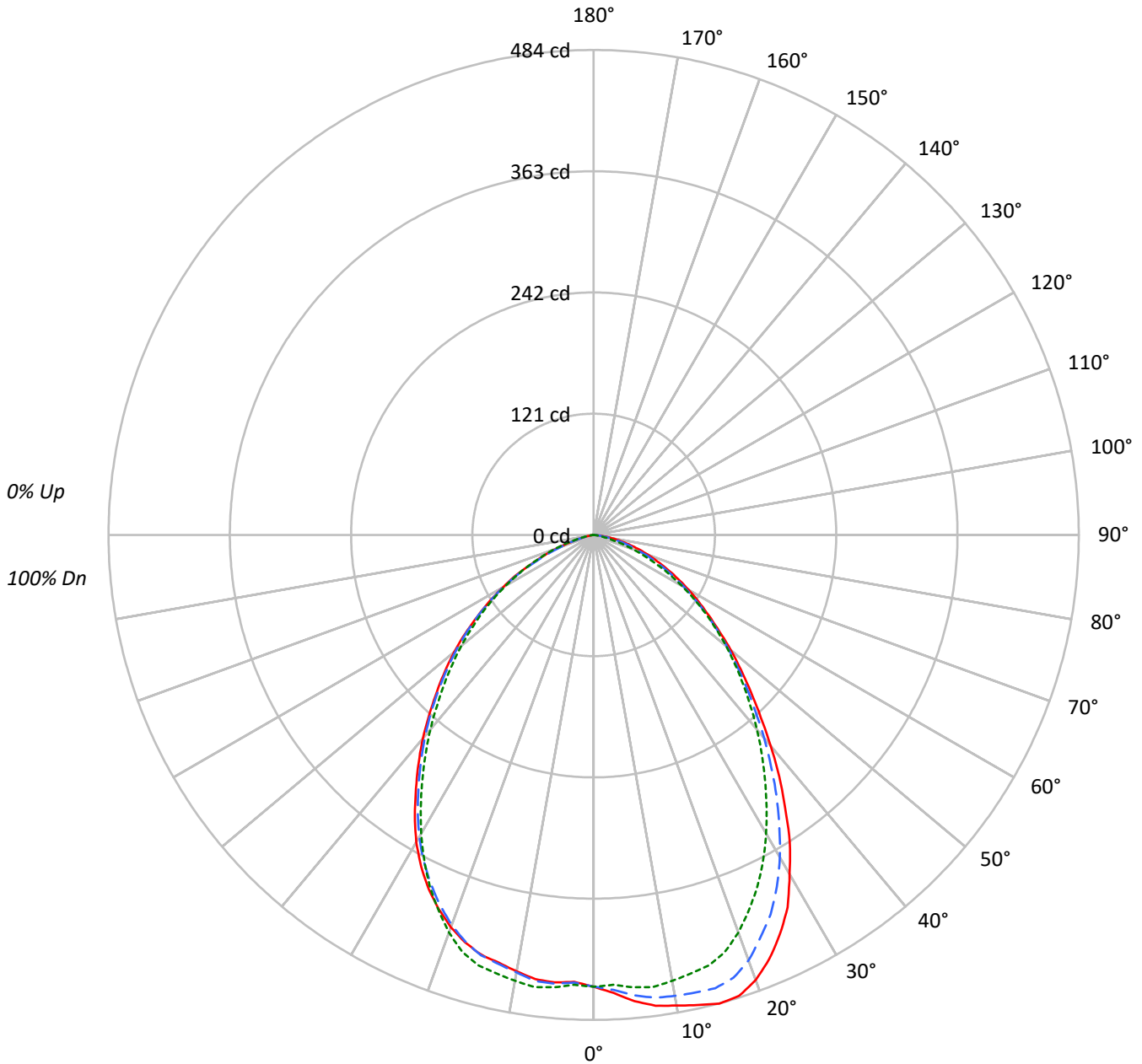
Lumens per Lamp: N/A
Luminaire Lumens: 939.2 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.15 / 1.21
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 8
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: P581474
CATALOG NUMBER: HCC4W07D010MB-HM40525840-41RWWC

Luminous Intensity Polar Plot





TEST NUMBER: P581474

CATALOG NUMBER: HCC4W07D010MB-HM40525840-41RWWC

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	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88								
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76								
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67								
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58								
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52								
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46								
7	70	58	50	44	69	57	49	44	56	49	44	54	48	44	53	47	43	41								
8	66	53	45	40	64	53	45	40	51	44	40	50	44	39	49	43	39	37								
9	62	49	42	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34								
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	55604	55604	55604
5°	57835	56114	55507
10°	59731	56600	55385
15°	61831	56774	55382
20°	62034	55406	54684
25°	59842	52642	53051
30°	55689	49009	50405
35°	50172	44842	46513
40°	44231	40802	42653
45°	38673	36771	38568
50°	34233	33082	34828
55°	30128	29225	30386
60°	26889	24940	25681
65°	23641	20255	19905
70°	20629	14930	13632
75°	17157	9007	7244
80°	12999	3481	2202
85°	5944	849	849



TEST NUMBER: P581474
 CATALOG NUMBER: HCC4W07D010MB-HM40525840-41RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.5	4.6
10°-20°	126.9	13.5
20°-30°	183.7	19.6
30°-40°	193.8	20.6
40°-50°	167.8	17.9
50°-60°	124.3	13.2
60°-70°	71.6	7.6
70°-80°	25.0	2.7
80°-90°	2.6	0.3
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°	354.1	37.7
0°-40°	547.9	58.3
0°-60°	840.0	89.4
0°-90°	939.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	939.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	451	451	451	451	451	
5°	467	461	453	450	448	45
15°	484	468	445	434	434	136
25°	440	418	387	384	390	201
35°	333	318	298	304	309	208
45°	222	216	211	219	221	172
55°	140	137	136	141	141	126
65°	81	76	69	66	68	81
75°	36	30	19	15	15	39
85°	4	2	1	1	1	7
90°	0	0	0	0	0	

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



TEST NUMBER: P581474

CATALOG NUMBER: HCC4W07D010MB-HM40525840-41RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	450.8	450.8	450.8	450.8	450.8	450.8	450.8	450.8	450.8
2.5°	457.5	456.2	454.4	451.9	449.5	447.7	447.1	446.4	446.4
5°	467.1	464.8	461.1	456.2	453.2	451.3	449.5	448.3	448.3
7.5°	473.9	471.5	465.9	459.3	455.0	451.3	448.9	447.1	447.1
10°	476.9	473.9	467.1	458.6	451.9	447.1	443.4	442.2	442.2
12.5°	480.6	476.9	467.8	456.8	448.3	442.2	438.6	437.3	437.3
15°	484.2	480.0	468.4	455.5	444.6	437.3	434.3	433.7	433.7
17.5°	482.4	476.9	463.5	448.3	436.1	428.8	425.7	425.7	426.4
20°	472.6	467.1	451.9	434.8	422.1	416.6	414.2	415.4	416.6
22.5°	458.0	451.3	434.8	418.4	405.0	400.1	400.1	401.9	403.9
25°	439.7	433.7	417.9	399.6	386.8	383.2	384.3	387.4	389.8
27.5°	419.0	412.3	395.9	378.8	366.1	364.3	367.2	371.6	372.8
30°	391.0	385.6	371.6	355.1	344.1	343.6	347.8	350.8	353.9
32.5°	364.3	358.1	344.7	328.9	321.0	321.6	326.5	330.1	332.0
35°	333.2	327.6	318.0	305.1	297.8	299.1	304.5	308.2	308.9
37.5°	304.0	300.3	290.5	280.7	275.3	277.8	282.6	286.9	286.9
40°	274.7	271.6	264.4	256.4	253.4	256.4	261.3	264.9	264.9
42.5°	246.7	244.9	238.8	233.3	231.5	235.7	240.0	243.1	242.4
45°	221.7	219.9	215.7	211.3	210.8	215.0	218.6	220.5	221.1
47.5°	199.1	197.9	194.3	191.3	191.3	195.5	198.6	200.4	201.0
50°	178.4	177.2	174.2	171.7	172.4	176.6	179.1	180.9	181.5
52.5°	157.7	157.2	154.7	151.7	153.5	156.6	159.5	160.8	161.4
55°	140.1	140.1	137.0	134.6	135.9	138.8	140.7	141.3	141.3
57.5°	124.3	123.7	119.9	117.6	118.1	121.2	122.4	123.0	123.0
60°	109.0	108.5	104.8	101.1	101.1	103.0	103.6	104.1	104.1
62.5°	94.5	93.8	89.6	86.5	85.2	84.7	84.7	85.9	88.3
65°	81.0	80.3	76.1	71.2	69.4	67.6	65.8	67.0	68.2
67.5°	68.8	67.6	63.4	59.1	54.9	51.8	48.7	50.5	53.0
70°	57.2	56.0	51.2	46.3	41.4	36.5	34.1	36.5	37.8
72.5°	46.3	45.1	40.2	35.3	29.2	24.4	23.8	24.4	24.9
75°	36.0	35.3	30.5	24.9	18.9	15.2	15.2	15.2	15.2
77.5°	26.7	25.6	20.7	15.8	10.9	8.5	8.0	8.0	8.0
80°	18.3	17.1	12.7	9.1	4.9	3.6	3.6	3.1	3.1
82.5°	10.4	9.8	6.7	3.6	1.8	1.3	1.3	1.3	1.3
85°	4.2	3.6	2.4	1.3	0.6	0.6	0.6	0.6	0.6
87.5°	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
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)