

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: P581460

Luminaire Tested: **HCC4W07D010MW-HM40525835-41WWWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581460
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: HCC4W07D010MW-HM40525835-41WWWB
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

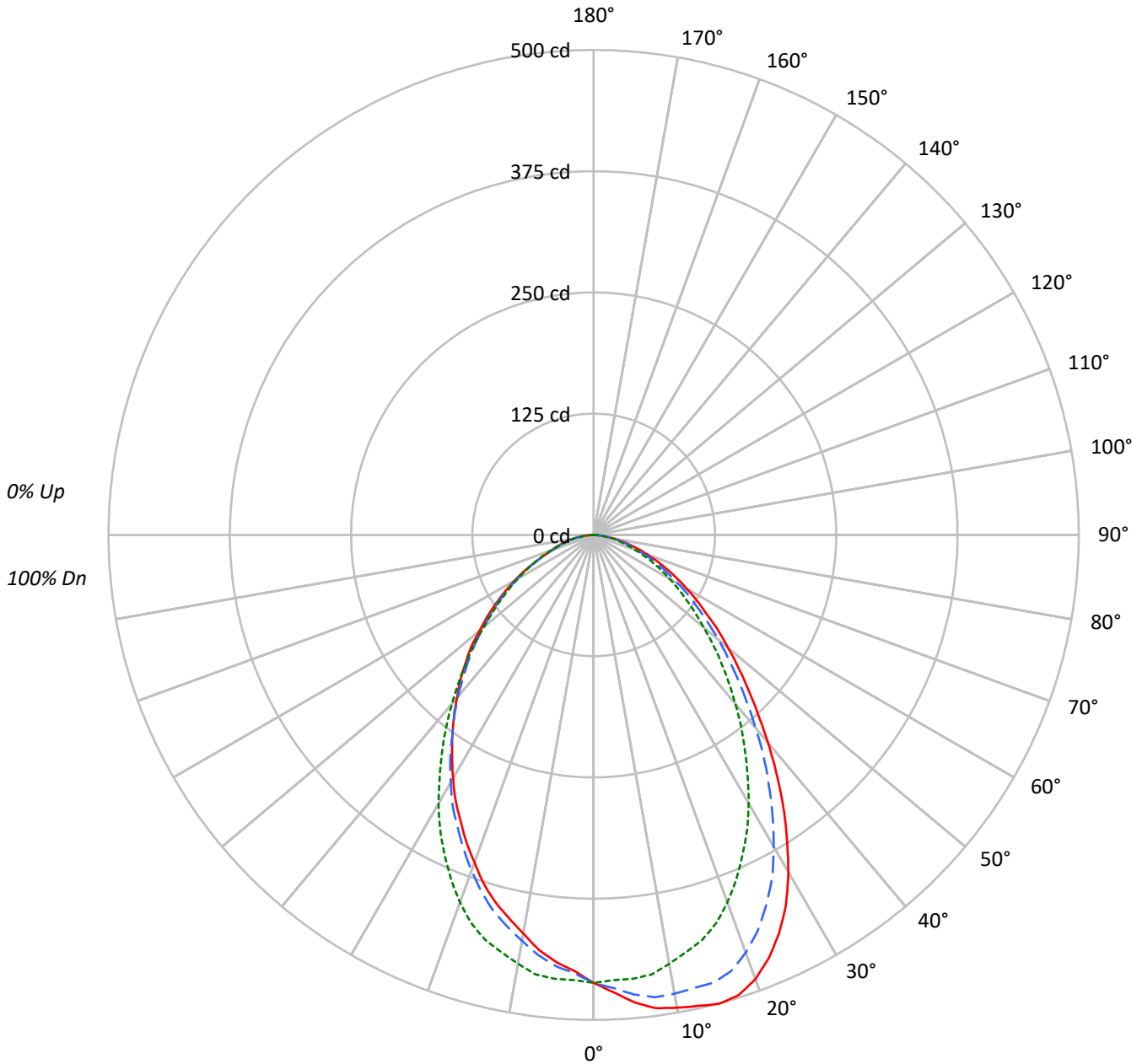
Lumens per Lamp: N/A
Luminaire Lumens: 895.6 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P581460
CATALOG NUMBER: HCC4W07D010MW-HM40525835-41WWWB

Luminous Intensity Polar Plot



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



TEST NUMBER: P581460

CATALOG NUMBER: HCC4W07D010MW-HM40525835-41WWWB

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	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	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°	56961	56961	56961
5°	59903	56881	54752
10°	61998	56211	52266
15°	63899	55191	50032
20°	63964	52912	47162
25°	61570	49458	44218
30°	57170	45520	41275
35°	51241	40972	38216
40°	44972	36551	35311
45°	39301	32376	32567
50°	34694	28323	29340
55°	30580	25117	26386
60°	27333	22227	23115
65°	24224	19555	19555
70°	21169	16661	16661
75°	18062	14106	15822
80°	14277	12644	14277
85°	9199	10897	13303



TEST NUMBER: P581460

CATALOG NUMBER: HCC4W07D010MW-HM40525835-41WWWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.8	4.9
10°-20°	123.2	13.8
20°-30°	172.6	19.3
30°-40°	177.8	19.9
40°-50°	151.4	16.9
50°-60°	112.2	12.5
60°-70°	70.4	7.9
70°-80°	35.0	3.9
80°-90°	9.2	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°	339.6	37.9
0°-40°	517.4	57.8
0°-60°	781.0	87.2
0°-90°	895.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	895.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	462	462	462	462	462	
5°	484	476	459	446	442	47
15°	500	478	432	401	392	141
25°	452	421	363	332	325	207
35°	340	315	272	254	254	212
45°	225	210	186	182	187	175
55°	142	131	117	119	123	129
65°	83	75	67	66	67	83
75°	38	34	30	32	33	40
85°	6	6	8	9	9	8
90°	0	0	0	0	0	

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



TEST NUMBER: P581460

CATALOG NUMBER: HCC4W07D010MW-HM40525835-41WWWB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	461.8	461.8	461.8	461.8	461.8	461.8	461.8	461.8	461.8
2.5°	471.9	470.1	467.7	463.6	459.4	455.9	452.4	450.5	450.0
5°	483.8	480.2	475.5	467.7	459.4	452.4	446.4	443.5	442.2
7.5°	492.1	488.5	480.8	469.0	457.0	446.4	436.9	432.8	431.5
10°	495.0	490.8	480.2	464.2	448.8	435.7	425.0	419.7	417.3
12.5°	497.4	492.1	478.4	459.4	440.5	424.5	413.2	406.0	404.3
15°	500.4	494.5	477.8	454.7	432.2	413.2	400.8	394.2	391.8
17.5°	497.4	490.8	471.4	445.2	419.7	399.0	385.3	379.4	377.0
20°	487.3	480.2	458.3	430.4	403.1	381.8	368.1	362.2	359.3
22.5°	471.9	464.2	441.7	412.1	384.2	363.4	350.4	344.5	342.7
25°	452.4	444.6	420.9	390.7	363.4	343.2	332.0	326.6	324.9
27.5°	429.3	421.5	398.4	368.7	342.7	323.6	314.8	309.4	308.3
30°	401.4	393.6	371.1	343.8	319.6	301.8	294.6	290.5	289.8
32.5°	370.5	364.0	343.2	318.3	295.2	280.4	275.1	272.1	271.5
35°	340.3	333.2	314.8	292.2	272.1	259.1	254.3	253.8	253.8
37.5°	309.4	302.4	287.6	266.7	249.6	237.7	235.9	236.6	236.6
40°	279.3	272.7	259.7	242.5	227.0	218.2	217.6	218.7	219.3
42.5°	250.8	245.5	233.6	218.7	205.8	198.6	199.1	201.5	203.4
45°	225.3	220.5	209.8	196.9	185.6	180.3	182.0	184.9	186.7
47.5°	202.1	198.0	187.9	176.0	166.6	163.1	165.4	169.0	171.4
50°	180.8	177.3	167.7	155.3	147.6	145.2	148.2	151.8	152.9
52.5°	161.8	158.3	148.2	137.6	131.6	130.4	133.4	136.3	138.2
55°	142.2	139.3	131.0	121.5	116.8	116.2	119.1	121.5	122.7
57.5°	126.3	123.4	115.6	107.3	103.1	102.5	105.5	107.3	107.9
60°	110.8	107.9	100.8	93.1	90.1	90.1	91.8	93.1	93.7
62.5°	96.6	93.7	87.2	80.6	78.3	78.3	78.3	78.9	80.6
65°	83.0	80.6	74.7	68.7	67.0	65.8	65.8	65.8	67.0
67.5°	70.6	68.2	63.4	58.2	56.3	54.5	53.9	55.1	55.1
70°	58.7	56.9	52.1	48.0	46.2	44.5	43.8	46.2	46.2
72.5°	48.0	46.2	43.2	39.1	37.3	36.8	37.9	39.1	39.7
75°	37.9	36.2	33.8	31.4	29.6	30.3	32.0	32.7	33.2
77.5°	28.4	27.9	25.5	23.7	23.7	24.4	25.5	26.6	27.3
80°	20.1	19.6	18.3	17.2	17.8	19.0	19.6	20.7	20.1
82.5°	12.4	12.4	11.8	11.8	12.4	13.7	14.2	14.8	15.4
85°	6.5	6.5	6.5	7.2	7.7	8.3	8.9	9.4	9.4
87.5°	1.8	2.4	2.4	3.0	3.5	3.5	4.1	4.1	4.1
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)