

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: P581061

Luminaire Tested: **HCC4W05D010MW-HM40525927-41RWWH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581061
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W05D010MW-HM40525927-41RWWH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

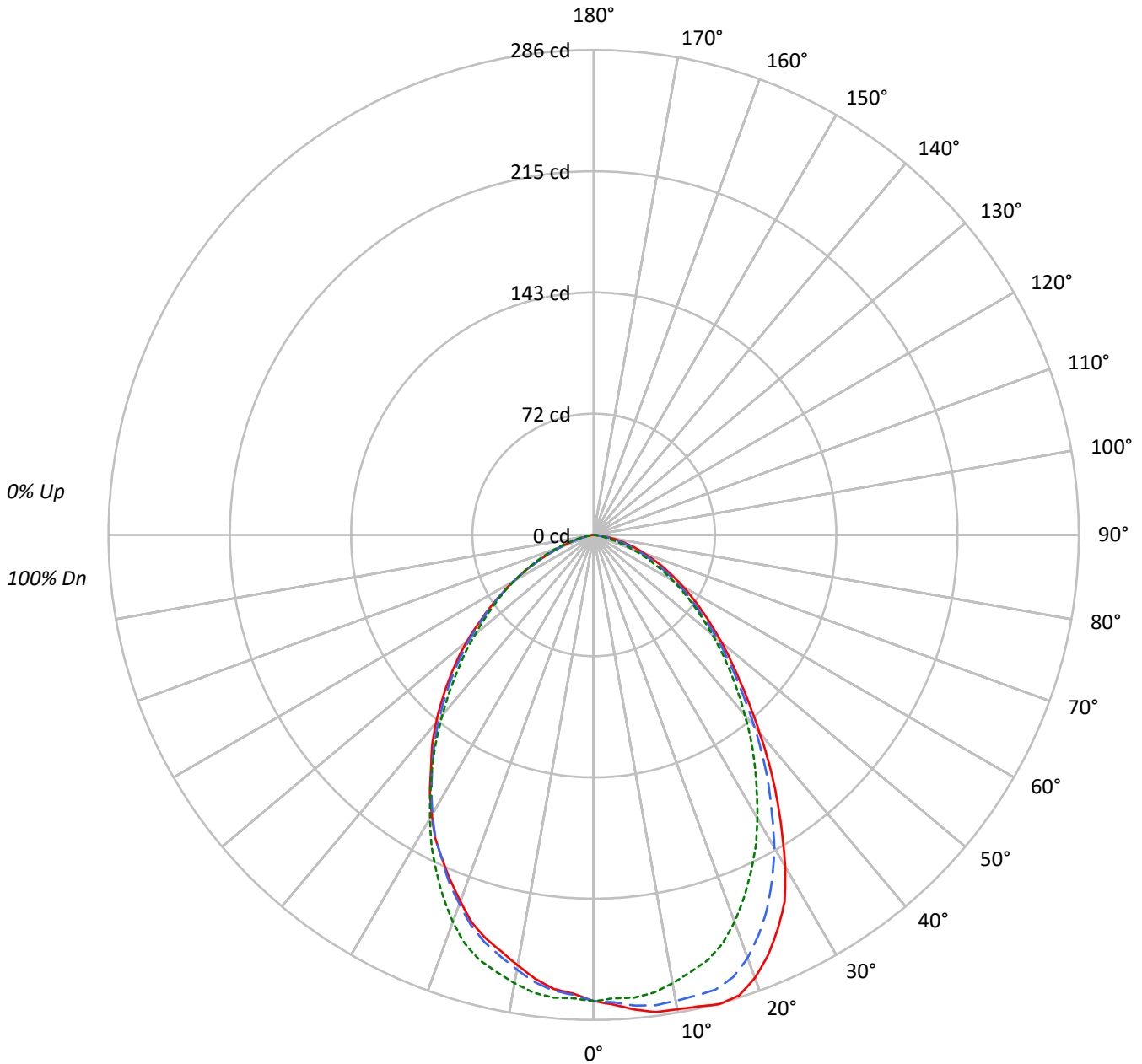
Lumens per Lamp: N/A
Luminaire Lumens: 523.9 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 6
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: P581061
CATALOG NUMBER: HCC4W05D010MW-HM40525927-41RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P581061

CATALOG NUMBER: HCC4W05D010MW-HM40525927-41RWWH

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	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88								
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77								
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67								
4	88	77	70	64	86	76	69	63	74	67	62	71	66	62	69	65	61	59								
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52								
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47								
7	71	58	51	45	69	58	50	45	56	49	45	55	49	44	54	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	41	37	47	41	37	46	41	37	35								
10	58	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°	33908	33908	33908
5°	34793	33913	33282
10°	35583	33617	32289
15°	36585	33150	31439
20°	36491	31870	30164
25°	34936	29846	28716
30°	32160	27488	27189
35°	28278	24936	25146
40°	24474	22317	23267
45°	21264	19833	21020
50°	18863	17481	18671
55°	16752	15354	16021
60°	14925	13297	13297
65°	13250	11062	10361
70°	11468	8403	7393
75°	9627	5528	4527
80°	7245	2628	2415
85°	3821	991	991



TEST NUMBER: P581061

CATALOG NUMBER: HCC4W05D010MW-HM40525927-41RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.0	5.0
10°-20°	73.8	14.1
20°-30°	104.1	19.9
30°-40°	107.5	20.5
40°-50°	91.1	17.4
50°-60°	66.3	12.7
60°-70°	38.7	7.4
70°-80°	14.4	2.7
80°-90°	1.9	0.4
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°	203.9	38.9
0°-40°	311.4	59.4
0°-60°	468.9	89.5
0°-90°	523.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	523.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	275	275	275	275	275	
5°	281	279	274	270	269	27
15°	286	278	260	249	246	81
25°	257	242	219	211	211	117
35°	188	180	166	166	167	117
45°	122	118	114	118	120	95
55°	78	74	71	74	74	70
65°	45	42	38	36	36	45
75°	20	17	12	9	10	22
85°	3	2	1	1	1	4
90°	0	0	0	0	0	



TEST NUMBER: P581061

CATALOG NUMBER: HCC4W05D010MW-HM40525927-41RWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	274.9	274.9	274.9	274.9	274.9	274.9	274.9	274.9	274.9
2.5°	277.3	276.6	275.9	274.9	273.5	272.5	271.5	270.8	270.8
5°	281.0	280.0	278.6	276.3	273.9	271.8	269.8	268.8	268.8
7.5°	283.8	282.4	279.7	276.3	272.2	269.1	266.0	264.7	264.0
10°	284.1	282.7	279.0	273.9	268.4	263.7	260.3	258.1	257.8
12.5°	284.8	283.1	278.3	271.2	264.0	258.1	254.4	252.3	251.6
15°	286.5	284.1	277.6	268.4	259.6	252.7	248.6	246.9	246.2
17.5°	284.8	281.4	273.5	262.6	252.7	245.2	241.1	239.4	239.4
20°	278.0	274.6	265.4	253.3	242.8	235.6	231.5	230.5	229.8
22.5°	268.4	264.7	254.7	242.1	231.5	225.1	222.3	221.0	220.6
25°	256.7	253.0	242.4	229.5	219.3	213.7	211.3	211.3	211.0
27.5°	243.8	239.0	228.1	216.8	206.9	202.8	201.8	201.8	202.1
30°	225.8	222.3	213.0	202.1	193.0	190.2	190.2	190.9	190.9
32.5°	206.2	203.8	195.7	186.1	178.9	177.2	177.9	179.3	179.7
35°	187.8	185.1	179.7	171.0	165.6	164.9	165.9	167.0	167.0
37.5°	169.7	167.0	163.2	156.4	152.3	152.7	154.0	155.4	156.4
40°	152.0	149.9	147.2	141.8	138.6	140.1	141.8	143.1	144.5
42.5°	136.2	134.2	132.1	128.0	126.0	127.7	129.7	131.1	132.5
45°	121.9	120.5	118.5	115.1	113.7	115.4	117.8	119.2	120.5
47.5°	109.6	109.0	106.2	103.2	102.5	104.2	106.2	107.9	109.0
50°	98.3	97.3	94.9	91.8	91.1	93.9	95.2	96.2	97.3
52.5°	87.4	86.4	83.6	80.9	80.9	83.0	84.0	84.3	85.4
55°	77.9	76.8	74.1	72.1	71.4	73.1	73.8	73.8	74.5
57.5°	69.0	68.0	65.3	62.9	62.5	63.6	63.6	63.6	63.9
60°	60.5	59.4	56.6	54.6	53.9	54.3	53.9	53.6	53.9
62.5°	52.6	51.5	48.8	46.4	45.7	45.7	44.7	44.4	44.7
65°	45.4	43.7	41.7	39.3	37.9	36.9	35.5	35.5	35.5
67.5°	38.2	36.9	34.5	32.1	30.4	28.7	26.7	27.4	27.7
70°	31.8	30.8	28.0	25.7	23.3	21.2	19.4	20.2	20.5
72.5°	26.0	24.6	22.2	19.4	17.4	14.6	13.6	14.3	14.3
75°	20.2	18.7	16.7	14.0	11.6	9.2	9.2	9.5	9.5
77.5°	15.0	13.6	11.6	9.2	7.2	5.4	5.8	5.8	5.8
80°	10.2	9.2	7.5	5.4	3.7	3.1	3.1	3.1	3.4
82.5°	5.8	5.1	4.1	2.7	1.7	1.7	1.7	1.7	1.7
85°	2.7	2.0	1.7	1.0	0.7	0.7	0.7	0.7	0.7
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
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)