

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: P581475

Luminaire Tested: **HCC4W07D010MW-HM40525840-41RWWH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581475
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: HCC4W07D010MW-HM40525840-41RWWH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

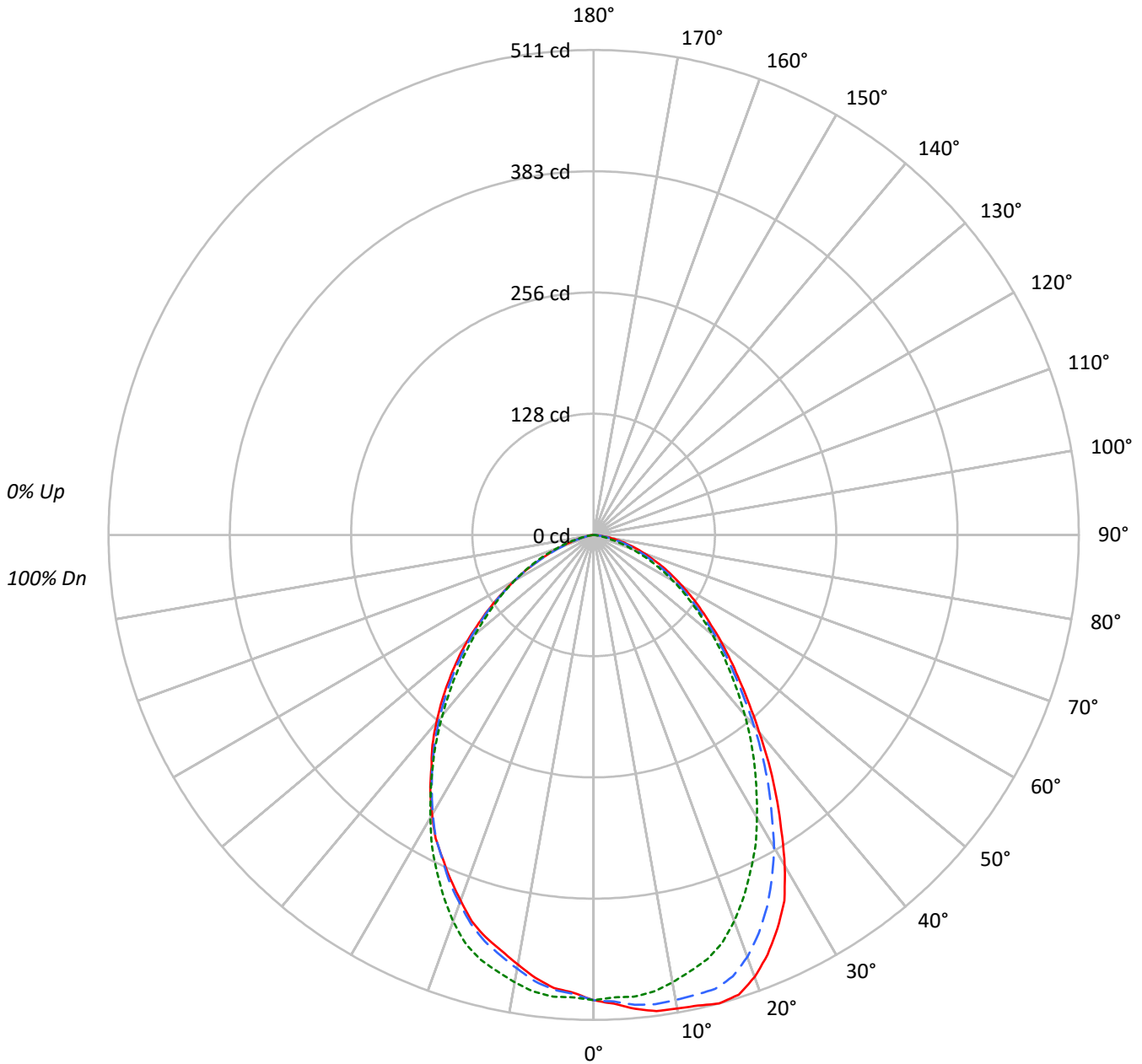
Lumens per Lamp: N/A
Luminaire Lumens: 934.4 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P581475
CATALOG NUMBER: HCC4W07D010MW-HM40525840-41RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P581475

CATALOG NUMBER: HCC4W07D010MW-HM40525840-41RWWH

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	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°	60476	60476	60476
5°	62057	60472	59333
10°	63451	59944	57589
15°	65253	59098	56059
20°	65066	56836	53791
25°	62319	53200	51213
30°	57327	48995	48482
35°	50428	44465	44842
40°	43635	39819	41478
45°	37923	35376	37504
50°	33658	31202	33293
55°	29848	27354	28558
60°	26593	23732	23732
65°	23641	19730	18504
70°	20448	14930	13163
75°	17157	9865	8149
80°	12999	4759	4333
85°	6935	1840	1840



TEST NUMBER: P581475
 CATALOG NUMBER: HCC4W07D010MW-HM40525840-41RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.4	5.0
10°-20°	131.6	14.1
20°-30°	185.6	19.9
30°-40°	191.7	20.5
40°-50°	162.5	17.4
50°-60°	118.3	12.7
60°-70°	69.1	7.4
70°-80°	25.7	2.7
80°-90°	3.4	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°	363.7	38.9
0°-40°	555.4	59.4
0°-60°	836.2	89.5
0°-90°	934.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	934.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	490	490	490	490	490	
5°	501	497	488	481	479	48
15°	511	495	463	443	439	144
25°	458	432	391	377	376	209
35°	335	320	295	296	298	209
45°	217	211	203	210	215	169
55°	139	132	127	132	133	125
65°	81	74	68	63	63	80
75°	36	30	21	16	17	39
85°	5	3	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: P581475

CATALOG NUMBER: HCC4W07D010MW-HM40525840-41RWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	490.3	490.3	490.3	490.3	490.3	490.3	490.3	490.3	490.3
2.5°	494.5	493.2	492.1	490.3	487.7	485.9	484.1	482.9	482.9
5°	501.2	499.4	497.0	492.6	488.4	484.8	481.0	479.2	479.2
7.5°	506.1	503.6	498.8	492.6	485.4	479.9	474.4	471.9	470.7
10°	506.6	504.2	497.5	488.4	478.6	470.1	464.1	460.4	459.8
12.5°	507.9	504.8	496.3	483.5	470.7	460.4	453.7	450.1	448.8
15°	511.0	506.6	495.1	478.6	462.8	450.6	443.4	440.3	439.0
17.5°	507.9	501.7	487.7	468.3	450.6	437.2	429.9	426.9	426.9
20°	495.7	489.6	473.2	451.9	433.0	420.1	412.9	411.0	409.8
22.5°	478.6	471.9	454.3	431.8	412.9	401.3	396.5	394.0	393.4
25°	457.9	451.2	432.3	409.2	390.9	381.2	376.9	376.9	376.3
27.5°	434.8	426.3	406.8	386.7	369.1	361.8	359.9	359.9	360.5
30°	402.5	396.5	380.0	360.5	344.0	339.2	339.2	340.4	340.4
32.5°	367.8	363.6	348.9	331.8	319.1	316.0	317.3	319.7	320.3
35°	334.9	330.0	320.3	305.1	295.3	294.2	296.0	297.8	297.8
37.5°	302.7	297.8	291.1	278.9	271.6	272.2	274.6	277.1	278.9
40°	271.0	267.3	262.4	252.7	247.3	249.7	252.7	255.1	257.6
42.5°	243.0	239.3	235.7	228.4	224.8	227.7	231.4	233.9	236.2
45°	217.4	215.0	211.3	205.2	202.8	205.9	210.1	212.6	215.0
47.5°	195.5	194.3	189.4	183.9	182.6	185.7	189.4	192.4	194.3
50°	175.4	173.5	169.3	163.8	162.6	167.5	169.9	171.7	173.5
52.5°	155.9	154.1	149.2	144.3	144.3	147.9	149.8	150.4	152.3
55°	138.8	137.0	132.1	128.5	127.2	130.3	131.6	131.6	132.8
57.5°	123.0	121.2	116.3	112.1	111.4	113.2	113.2	113.2	113.9
60°	107.8	105.9	101.1	97.4	96.2	96.8	96.2	95.6	96.2
62.5°	93.8	92.0	87.1	82.8	81.6	81.6	79.8	79.2	79.8
65°	81.0	78.0	74.3	70.0	67.6	65.8	63.4	63.4	63.4
67.5°	68.2	65.8	61.5	57.2	54.2	51.2	47.5	48.7	49.3
70°	56.7	54.9	50.0	45.6	41.4	37.8	34.7	36.0	36.5
72.5°	46.3	43.8	39.6	34.7	31.1	26.2	24.4	25.6	25.6
75°	36.0	33.5	29.8	24.9	20.7	16.4	16.4	17.1	17.1
77.5°	26.7	24.4	20.7	16.4	12.7	9.8	10.4	10.4	10.4
80°	18.3	16.4	13.4	9.8	6.7	5.5	5.5	5.5	6.1
82.5°	10.4	9.1	7.3	4.9	3.1	3.1	3.1	3.1	3.1
85°	4.9	3.6	3.1	1.8	1.3	1.3	1.3	1.3	1.3
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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)