

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: P592615

Luminaire Tested: **HCC4W10D010MB-HM40525950-41RWWC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592615
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: HCC4W10D010MB-HM40525950-41RWWC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

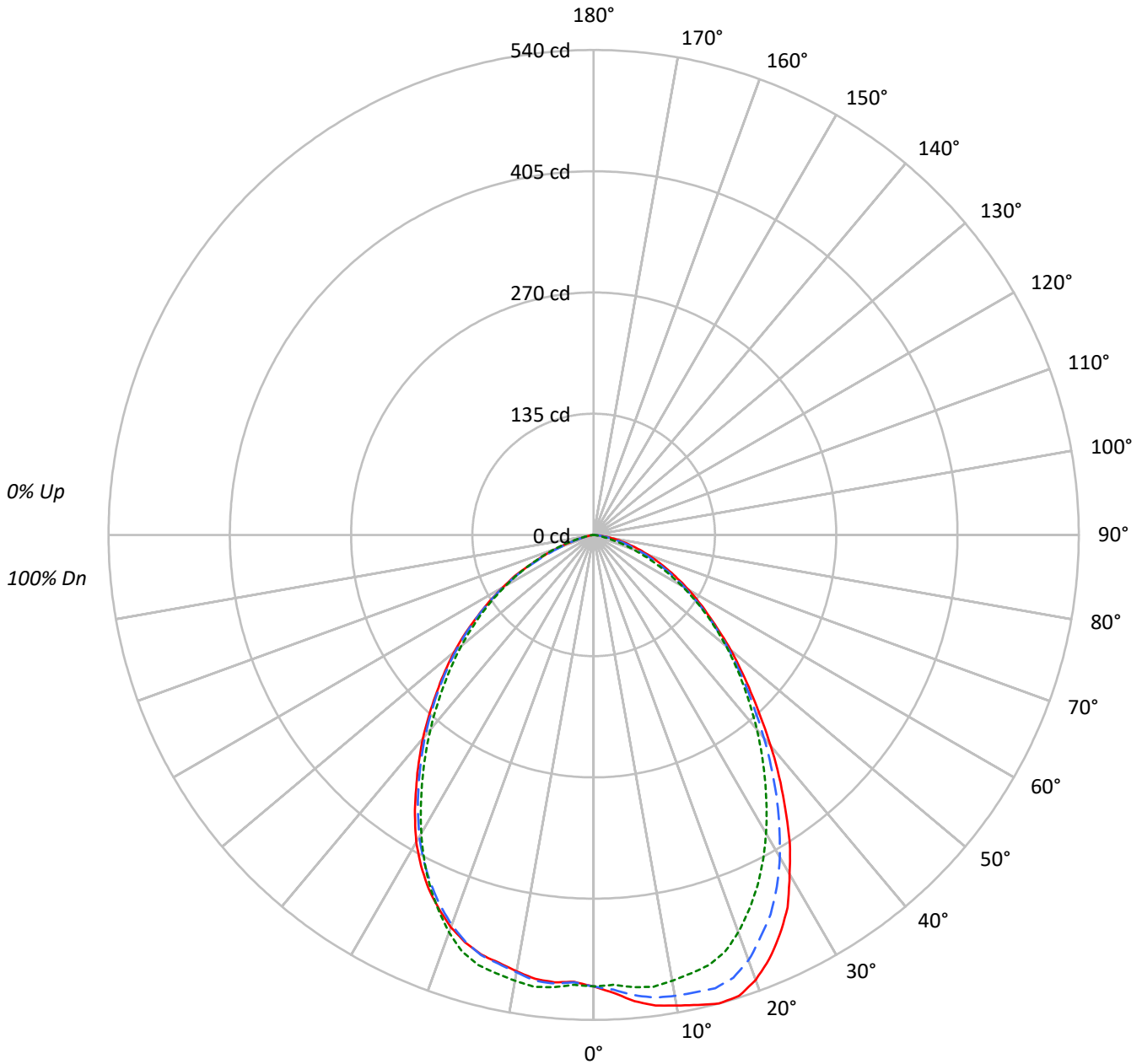
Lumens per Lamp: N/A
Luminaire Lumens: 1047.7 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.15 / 1.21
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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: P592615
CATALOG NUMBER: HCC4W10D010MB-HM40525950-41RWWC

Luminous Intensity Polar Plot



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



TEST NUMBER: P592615

CATALOG NUMBER: HCC4W10D010MB-HM40525950-41RWWC

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°	62018	62018	62018
5°	64521	62589	61908
10°	66632	63138	61785
15°	68969	63325	61780
20°	69201	61798	61010
25°	66769	58712	59175
30°	62127	54664	56230
35°	55970	50037	51874
40°	49351	45519	47580
45°	43138	41010	43016
50°	38186	36901	38858
55°	33590	32580	33891
60°	30022	27827	28666
65°	26384	22619	22211
70°	23009	16661	15183
75°	19110	10056	8102
80°	14491	3907	2415
85°	6793	991	991



TEST NUMBER: P592615

CATALOG NUMBER: HCC4W10D010MB-HM40525950-41RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.5	4.6
10°-20°	141.5	13.5
20°-30°	205.0	19.6
30°-40°	216.2	20.6
40°-50°	187.1	17.9
50°-60°	138.6	13.2
60°-70°	79.9	7.6
70°-80°	27.9	2.7
80°-90°	2.9	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°	395.0	37.7
0°-40°	611.2	58.3
0°-60°	937.0	89.4
0°-90°	1047.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1047.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	503	503	503	503	503	
5°	521	514	506	501	500	50
15°	540	522	496	484	484	152
25°	491	466	431	429	435	225
35°	372	355	332	340	344	232
45°	247	241	235	244	247	192
55°	156	153	152	157	158	141
65°	90	85	78	73	76	90
75°	40	34	21	17	17	43
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: P592615

CATALOG NUMBER: HCC4W10D010MB-HM40525950-41RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	502.8	502.8	502.8	502.8	502.8	502.8	502.8	502.8	502.8
2.5°	510.3	508.9	506.9	504.1	501.4	499.4	498.7	498.0	498.0
5°	521.1	518.4	514.4	508.9	505.5	503.5	501.4	500.0	500.0
7.5°	528.6	525.9	519.7	512.3	507.5	503.5	500.7	498.7	498.7
10°	532.0	528.6	521.1	511.6	504.1	498.7	494.6	493.3	493.3
12.5°	536.1	532.0	521.8	509.6	500.0	493.3	489.2	487.9	487.9
15°	540.1	535.4	522.5	508.2	495.9	487.9	484.4	483.8	483.8
17.5°	538.2	532.0	517.0	500.0	486.5	478.3	474.9	474.9	475.6
20°	527.2	521.1	504.1	485.1	470.8	464.8	462.0	463.4	464.8
22.5°	511.0	503.5	485.1	466.8	451.8	446.4	446.4	448.4	450.4
25°	490.6	483.8	466.1	445.8	431.4	427.3	428.7	432.1	434.8
27.5°	467.5	460.0	441.7	422.7	408.3	406.3	409.7	414.5	415.8
30°	436.2	430.1	414.5	396.1	383.8	383.2	387.9	391.4	394.8
32.5°	406.3	399.6	384.5	366.9	358.0	358.7	364.2	368.3	370.3
35°	371.7	365.5	354.7	340.4	332.3	333.5	339.7	343.8	344.5
37.5°	339.0	334.9	324.1	313.2	307.1	309.8	315.2	320.0	320.0
40°	306.5	303.0	294.9	286.1	282.7	286.1	291.4	295.5	295.5
42.5°	275.2	273.1	266.3	260.3	258.2	263.0	267.7	271.1	270.4
45°	247.3	245.2	240.6	235.8	235.1	239.9	243.9	245.9	246.6
47.5°	222.1	220.8	216.8	213.4	213.4	218.0	221.5	223.5	224.2
50°	199.0	197.7	194.4	191.6	192.3	197.0	199.7	201.8	202.5
52.5°	175.9	175.3	172.5	169.2	171.3	174.6	178.0	179.3	180.0
55°	156.2	156.2	152.8	150.1	151.5	154.9	156.9	157.6	157.6
57.5°	138.6	137.9	133.8	131.1	131.8	135.2	136.6	137.2	137.2
60°	121.7	121.0	116.9	112.8	112.8	114.8	115.5	116.2	116.2
62.5°	105.3	104.6	99.9	96.5	95.1	94.5	94.5	95.8	98.6
65°	90.4	89.7	84.9	79.5	77.5	75.4	73.4	74.8	76.1
67.5°	76.8	75.4	70.7	65.9	61.1	57.7	54.4	56.4	59.1
70°	63.8	62.5	57.1	51.7	46.2	40.7	38.0	40.7	42.1
72.5°	51.7	50.3	44.8	39.4	32.7	27.2	26.5	27.2	27.9
75°	40.1	39.4	34.0	27.9	21.1	17.0	17.0	17.0	17.0
77.5°	29.9	28.6	23.1	17.6	12.2	9.6	8.9	8.9	8.9
80°	20.4	19.0	14.2	10.2	5.5	4.1	4.1	3.4	3.4
82.5°	11.5	10.9	7.5	4.1	2.0	1.4	1.4	1.4	1.4
85°	4.8	4.1	2.7	1.4	0.7	0.7	0.7	0.7	0.7
87.5°	0.7	0.7	0.7	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)