

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: P581042

Luminaire Tested: **HCC4W05D010MB-HM40525840-41RWWC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581042
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: HCC4W05D010MB-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

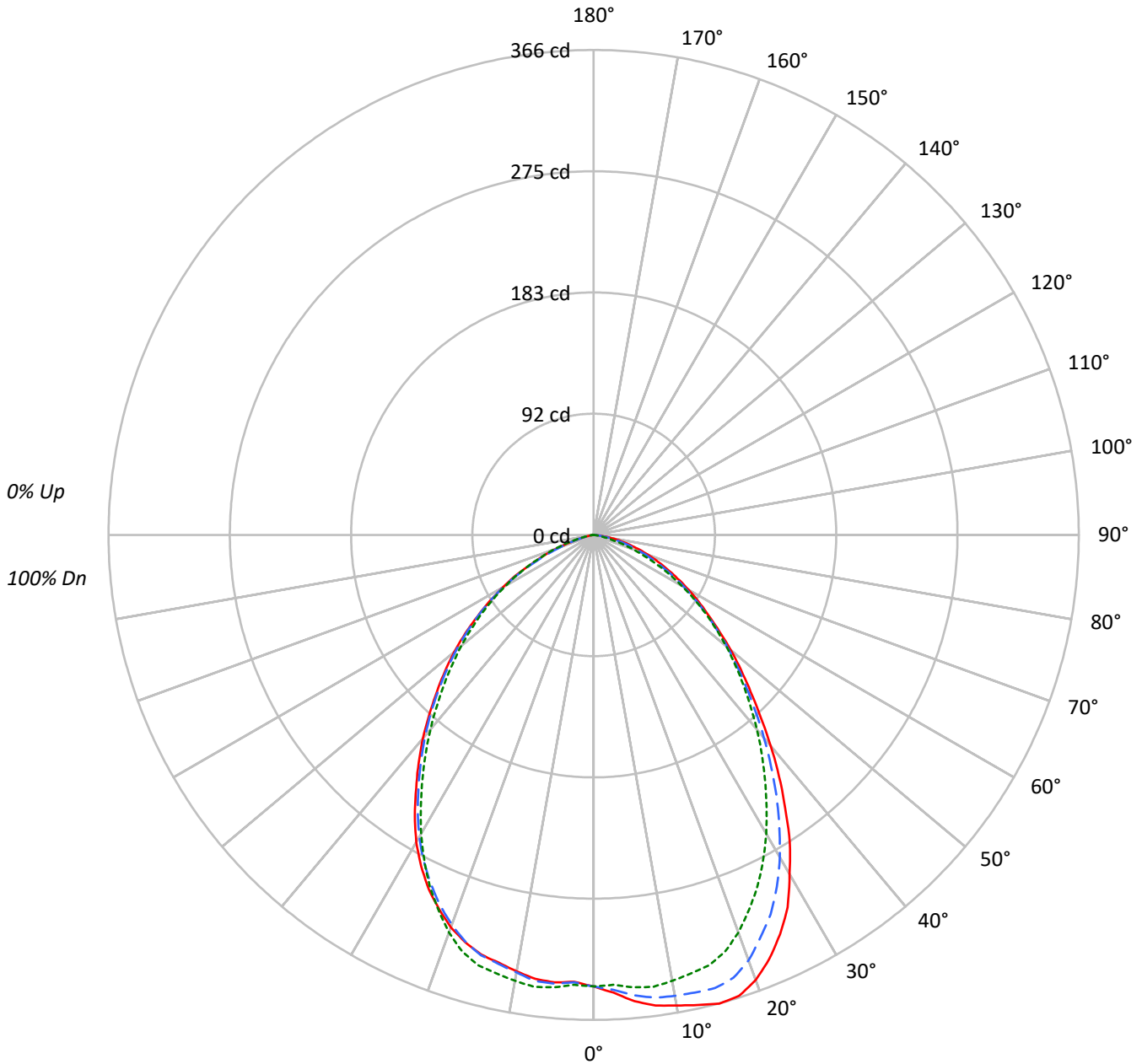
Lumens per Lamp: N/A
Luminaire Lumens: 710.2 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.15 / 1.21
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P581042
CATALOG NUMBER: HCC4W05D010MB-HM40525840-41RWWC

Luminous Intensity Polar Plot





TEST NUMBER: P581042

CATALOG NUMBER: HCC4W05D010MB-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	62	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°	42036	42036	42036
5°	43732	42432	41974
10°	45165	42797	41883
15°	46763	42932	41872
20°	46913	41899	41361
25°	45266	39808	40121
30°	42116	37074	38114
35°	37945	33910	35160
40°	33443	30851	32252
45°	29236	27805	29166
50°	25905	25003	26328
55°	22773	22085	22967
60°	20327	18872	19439
65°	17891	15352	15031
70°	15580	11288	10314
75°	12915	6815	5481
80°	9802	2557	1634
85°	4529	708	708



TEST NUMBER: P581042
 CATALOG NUMBER: HCC4W05D010MB-HM40525840-41RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.9	4.6
10°-20°	95.9	13.5
20°-30°	138.9	19.6
30°-40°	146.6	20.6
40°-50°	126.9	17.9
50°-60°	94.0	13.2
60°-70°	54.2	7.6
70°-80°	18.9	2.7
80°-90°	2.0	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°	267.7	37.7
0°-40°	414.3	58.3
0°-60°	635.1	89.4
0°-90°	710.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	710.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	341	341	341	341	341	
5°	353	349	343	340	339	34
15°	366	354	336	328	328	103
25°	333	316	292	291	295	152
35°	252	240	225	230	234	157
45°	168	163	159	165	167	130
55°	106	104	103	106	107	96
65°	61	58	53	50	52	61
75°	27	23	14	12	12	29
85°	3	2	0	0	0	5
90°	0	0	0	0	0	



TEST NUMBER: P581042

CATALOG NUMBER: HCC4W05D010MB-HM40525840-41RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	340.8	340.8	340.8	340.8	340.8	340.8	340.8	340.8	340.8
2.5°	345.8	344.9	343.6	341.7	339.9	338.6	338.0	337.5	337.5
5°	353.2	351.4	348.7	344.9	342.7	341.3	339.9	339.0	339.0
7.5°	358.3	356.5	352.3	347.3	344.0	341.3	339.5	338.0	338.0
10°	360.6	358.3	353.2	346.9	341.7	338.0	335.3	334.4	334.4
12.5°	363.4	360.6	353.7	345.4	339.0	334.4	331.6	330.7	330.7
15°	366.2	363.0	354.1	344.5	336.2	330.7	328.4	327.9	327.9
17.5°	364.8	360.6	350.5	339.0	329.7	324.3	321.9	321.9	322.3
20°	357.4	353.2	341.7	328.8	319.2	315.1	313.1	314.1	315.1
22.5°	346.3	341.3	328.8	316.4	306.2	302.6	302.6	304.0	305.3
25°	332.6	327.9	316.0	302.1	292.5	289.7	290.6	292.9	294.8
27.5°	316.9	311.8	299.4	286.5	276.8	275.5	277.7	280.9	281.8
30°	295.7	291.6	280.9	268.5	260.3	259.8	263.0	265.2	267.6
32.5°	275.5	270.8	260.7	248.7	242.7	243.2	246.9	249.6	251.1
35°	252.0	247.8	240.4	230.7	225.2	226.1	230.3	233.0	233.5
37.5°	229.8	227.1	219.7	212.4	208.2	210.0	213.7	216.9	216.9
40°	207.7	205.4	199.9	193.9	191.6	193.9	197.6	200.3	200.3
42.5°	186.5	185.1	180.6	176.4	175.0	178.2	181.5	183.8	183.3
45°	167.6	166.3	163.0	159.8	159.4	162.5	165.4	166.7	167.2
47.5°	150.6	149.7	146.9	144.6	144.6	147.9	150.2	151.5	152.0
50°	135.0	134.0	131.8	129.8	130.3	133.6	135.4	136.8	137.2
52.5°	119.3	118.8	117.0	114.6	116.1	118.4	120.7	121.6	122.0
55°	105.9	105.9	103.6	101.8	102.7	105.0	106.3	106.8	106.8
57.5°	94.0	93.5	90.7	88.9	89.3	91.7	92.6	93.1	93.1
60°	82.4	81.9	79.2	76.5	76.5	77.9	78.3	78.8	78.8
62.5°	71.4	70.9	67.8	65.4	64.5	64.0	64.0	64.9	66.7
65°	61.3	60.8	57.5	53.9	52.6	51.1	49.7	50.6	51.5
67.5°	52.1	51.1	47.9	44.7	41.4	39.2	36.9	38.2	40.1
70°	43.2	42.3	38.7	35.0	31.3	27.6	25.8	27.6	28.6
72.5°	35.0	34.0	30.4	26.7	22.1	18.4	17.9	18.4	18.8
75°	27.1	26.7	23.0	18.8	14.3	11.5	11.5	11.5	11.5
77.5°	20.3	19.3	15.7	12.0	8.3	6.5	6.0	6.0	6.0
80°	13.8	12.9	9.6	6.9	3.6	2.7	2.7	2.3	2.3
82.5°	7.8	7.4	5.1	2.7	1.4	0.9	0.9	0.9	0.9
85°	3.2	2.7	1.8	0.9	0.5	0.5	0.5	0.5	0.5
87.5°	0.5	0.5	0.5	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)