

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: P581010

Luminaire Tested: **HCC4W05D010MW-HM40525830-41WWWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581010
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: HCC4W05D010MW-HM40525830-41WWWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

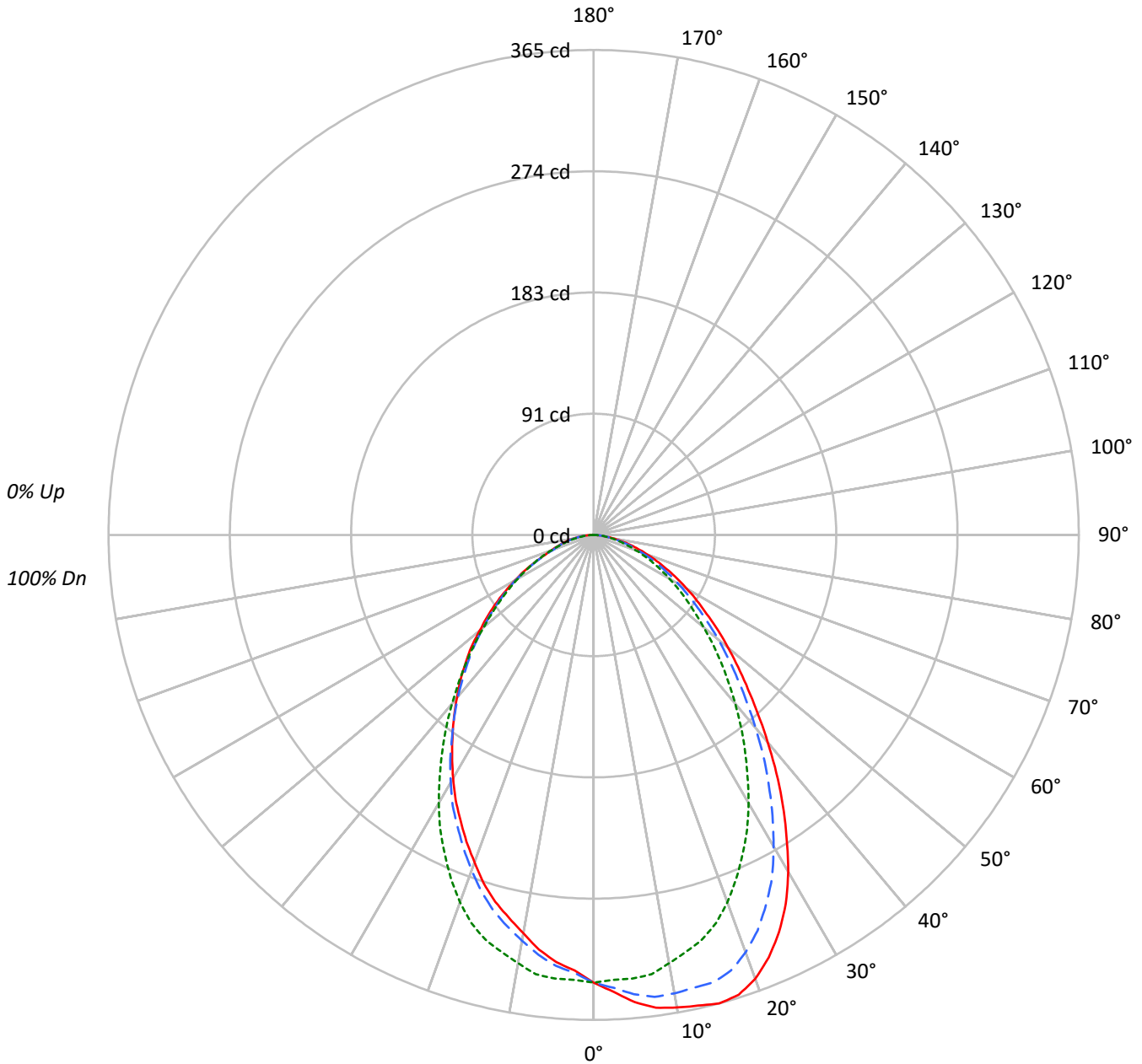
Lumens per Lamp: N/A
Luminaire Lumens: 653.4 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): 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: P581010
CATALOG NUMBER: HCC4W05D010MW-HM40525830-41WWWB

Luminous Intensity Polar Plot





TEST NUMBER: P581010

CATALOG NUMBER: HCC4W05D010MW-HM40525830-41WWWB

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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87					87			
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75					75			
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66					66			
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	60	58					58			
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51					51			
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46					46			
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41					41			
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37					37			
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34					34			
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31					31			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	41555	41555	41555
5°	43695	41503	39956
10°	45240	40994	38126
15°	46609	40263	36509
20°	46664	38604	34404
25°	44898	36079	32255
30°	41703	33200	30123
35°	37373	29890	27872
40°	32799	26664	25763
45°	28660	23619	23758
50°	25311	20667	21415
55°	22300	18322	19268
60°	19957	16208	16849
65°	17658	14272	14272
70°	15435	12154	12154
75°	13201	10342	11533
80°	10513	9163	10513
85°	6793	8067	9765



TEST NUMBER: P581010
 CATALOG NUMBER: HCC4W05D010MW-HM40525830-41WWWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.9	4.9
10°-20°	89.9	13.8
20°-30°	125.9	19.3
30°-40°	129.7	19.9
40°-50°	110.5	16.9
50°-60°	81.8	12.5
60°-70°	51.4	7.9
70°-80°	25.5	3.9
80°-90°	6.7	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°	247.7	37.9
0°-40°	377.5	57.8
0°-60°	569.8	87.2
0°-90°	653.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	653.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	337	337	337	337	337	
5°	353	347	335	326	323	34
15°	365	349	315	292	286	103
25°	330	307	265	242	237	151
35°	248	230	198	186	185	155
45°	164	153	135	133	136	128
55°	104	96	85	87	90	94
65°	60	54	49	48	49	60
75°	28	25	22	23	24	30
85°	5	5	6	6	7	6
90°	0	0	0	0	0	

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



TEST NUMBER: P581010

CATALOG NUMBER: HCC4W05D010MW-HM40525830-41WWWB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	336.9	336.9	336.9	336.9	336.9	336.9	336.9	336.9	336.9
2.5°	344.2	343.0	341.2	338.2	335.2	332.6	329.9	328.7	328.2
5°	352.9	350.3	346.9	341.2	335.2	329.9	325.6	323.5	322.7
7.5°	359.0	356.4	350.7	342.1	333.5	325.6	318.7	315.8	314.8
10°	361.2	358.1	350.3	338.7	327.3	317.9	310.1	306.2	304.4
12.5°	362.9	359.0	349.0	335.2	321.3	309.6	301.5	296.2	295.0
15°	365.0	360.7	348.6	331.8	315.3	301.5	292.4	287.6	285.9
17.5°	362.9	358.1	343.8	324.8	306.2	291.0	281.1	276.8	275.0
20°	355.5	350.3	334.3	313.9	294.1	278.5	268.5	264.2	262.1
22.5°	344.2	338.7	322.2	300.5	280.2	265.1	255.6	251.3	249.9
25°	329.9	324.4	307.0	285.0	265.1	250.4	242.2	238.4	237.0
27.5°	313.1	307.5	290.7	269.0	249.9	236.1	229.6	225.8	224.8
30°	292.8	287.2	270.7	250.8	233.1	220.1	215.0	211.9	211.5
32.5°	270.2	265.6	250.4	232.2	215.4	204.5	200.7	198.5	198.1
35°	248.2	243.0	229.6	213.3	198.5	189.0	185.6	185.1	185.1
37.5°	225.8	220.5	209.7	194.7	182.1	173.4	172.2	172.5	172.5
40°	203.7	199.0	189.4	176.8	165.6	159.1	158.7	159.6	160.0
42.5°	183.0	179.0	170.4	159.6	150.0	144.8	145.3	147.1	148.3
45°	164.3	160.8	153.1	143.6	135.4	131.4	132.8	135.0	136.2
47.5°	147.4	144.5	137.1	128.5	121.6	118.9	120.7	123.3	125.0
50°	131.9	129.3	122.4	113.3	107.7	106.0	108.2	110.7	111.6
52.5°	118.0	115.4	108.2	100.3	96.0	95.1	97.3	99.4	100.8
55°	103.7	101.6	95.6	88.6	85.2	84.8	86.9	88.6	89.6
57.5°	92.2	90.0	84.3	78.3	75.3	74.8	77.0	78.3	78.7
60°	80.9	78.7	73.5	67.9	65.7	65.7	67.1	67.9	68.3
62.5°	70.5	68.3	63.6	58.8	57.1	57.1	57.1	57.5	58.8
65°	60.5	58.8	54.5	50.2	48.9	48.0	48.0	48.0	48.9
67.5°	51.4	49.7	46.3	42.3	41.1	39.8	39.4	40.2	40.2
70°	42.8	41.5	38.0	35.1	33.7	32.5	32.0	33.7	33.7
72.5°	35.1	33.7	31.6	28.5	27.2	26.8	27.7	28.5	28.9
75°	27.7	26.3	24.6	22.9	21.7	22.0	23.4	23.8	24.2
77.5°	20.8	20.3	18.6	17.3	17.3	17.7	18.6	19.4	19.9
80°	14.8	14.3	13.4	12.6	12.9	13.8	14.3	15.1	14.8
82.5°	9.1	9.1	8.6	8.6	9.1	10.0	10.3	10.8	11.2
85°	4.8	4.8	4.8	5.2	5.7	6.0	6.5	6.9	6.9
87.5°	1.2	1.7	1.7	2.2	2.6	2.6	3.1	3.1	3.1
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)