

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: P581025

Luminaire Tested: **HCC4W05D010BZ-HM40525835-41RWWH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581025
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: HCC4W05D010BZ-HM40525835-41RWWH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

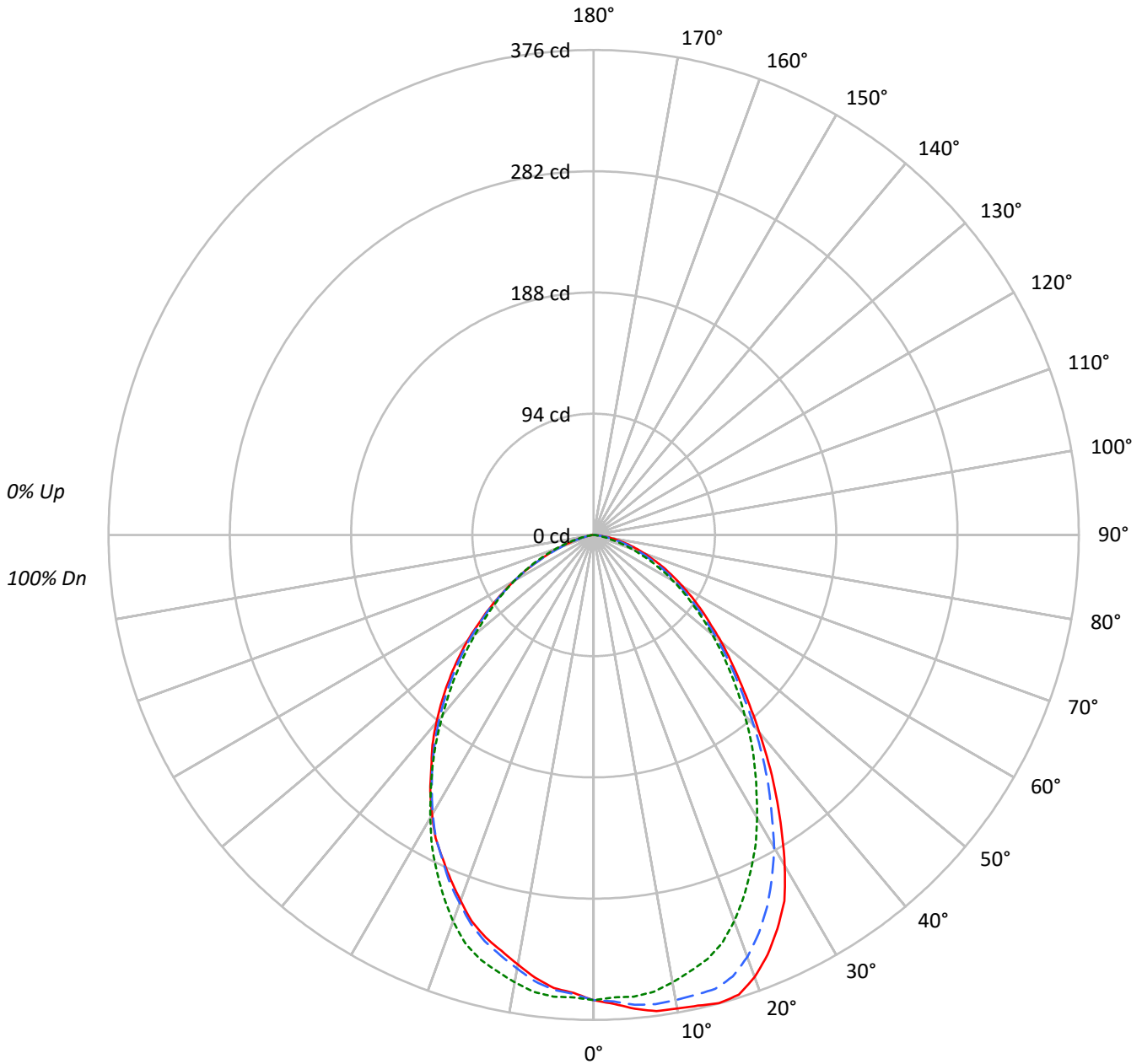
Lumens per Lamp: N/A
Luminaire Lumens: 687.6 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P581025
CATALOG NUMBER: HCC4W05D010BZ-HM40525835-41RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P581025

CATALOG NUMBER: HCC4W05D010BZ-HM40525835-41RWWH

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°	44491	44491	44491
5°	45664	44487	43658
10°	46693	44112	42372
15°	48001	43494	41259
20°	47884	41820	39589
25°	45865	39155	37685
30°	42187	36063	35678
35°	37102	32735	33007
40°	32107	29289	30513
45°	27892	26043	27596
50°	24754	22950	24505
55°	21978	20128	21010
60°	19563	17466	17466
65°	17395	14505	13601
70°	15039	10963	9701
75°	12581	7244	6005
80°	9518	3481	3125
85°	5095	1274	1274



TEST NUMBER: P581025
 CATALOG NUMBER: HCC4W05D010BZ-HM40525835-41RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.2	5.0
10°-20°	96.9	14.1
20°-30°	136.6	19.9
30°-40°	141.1	20.5
40°-50°	119.6	17.4
50°-60°	87.0	12.7
60°-70°	50.8	7.4
70°-80°	18.9	2.7
80°-90°	2.5	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°	267.6	38.9
0°-40°	408.7	59.4
0°-60°	615.3	89.5
0°-90°	687.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	687.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	361	361	361	361	361	
5°	369	366	359	354	353	35
15°	376	364	341	326	323	106
25°	337	318	288	277	277	154
35°	246	236	217	218	219	154
45°	160	156	149	155	158	124
55°	102	97	94	97	98	92
65°	60	55	50	47	47	59
75°	26	22	15	12	13	28
85°	4	2	1	1	1	5
90°	0	0	0	0	0	

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



TEST NUMBER: P581025

CATALOG NUMBER: HCC4W05D010BZ-HM40525835-41RWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	360.7	360.7	360.7	360.7	360.7	360.7	360.7	360.7	360.7
2.5°	363.9	363.0	362.1	360.7	358.9	357.6	356.3	355.4	355.4
5°	368.8	367.4	365.7	362.5	359.3	356.7	354.0	352.6	352.6
7.5°	372.4	370.6	366.9	362.5	357.2	353.1	349.1	347.3	346.4
10°	372.8	371.0	366.2	359.3	352.2	345.9	341.4	338.8	338.3
12.5°	373.8	371.5	365.2	355.8	346.4	338.8	333.8	331.2	330.3
15°	375.9	372.8	364.3	352.2	340.6	331.6	326.2	323.9	323.1
17.5°	373.8	369.2	358.9	344.6	331.6	321.8	316.3	314.2	314.2
20°	364.8	360.2	348.2	332.4	318.6	309.2	303.8	302.5	301.6
22.5°	352.2	347.3	334.3	317.7	303.8	295.3	291.7	289.9	289.4
25°	337.0	332.0	318.1	301.1	287.7	280.5	277.4	277.4	276.9
27.5°	320.0	313.7	299.3	284.5	271.6	266.2	264.8	264.8	265.2
30°	296.2	291.7	279.7	265.2	253.2	249.6	249.6	250.5	250.5
32.5°	270.7	267.5	256.7	244.3	234.8	232.6	233.5	235.3	235.7
35°	246.4	242.9	235.7	224.5	217.4	216.4	217.8	219.2	219.2
37.5°	222.7	219.2	214.2	205.2	199.9	200.3	202.1	203.8	205.2
40°	199.4	196.7	193.2	185.9	181.9	183.8	185.9	187.7	189.5
42.5°	178.8	176.2	173.4	168.1	165.4	167.6	170.2	172.1	173.9
45°	159.9	158.2	155.5	151.0	149.3	151.4	154.6	156.4	158.2
47.5°	143.8	142.9	139.4	135.3	134.4	136.7	139.4	141.6	142.9
50°	129.0	127.7	124.6	120.5	119.6	123.3	125.1	126.3	127.7
52.5°	114.7	113.4	109.8	106.2	106.2	108.8	110.2	110.7	112.0
55°	102.2	100.8	97.3	94.5	93.6	95.9	96.8	96.8	97.7
57.5°	90.6	89.2	85.6	82.4	81.9	83.3	83.3	83.3	83.8
60°	79.3	78.0	74.3	71.7	70.8	71.3	70.8	70.4	70.8
62.5°	69.0	67.6	64.1	60.9	60.0	60.0	58.7	58.2	58.7
65°	59.6	57.3	54.7	51.5	49.7	48.4	46.6	46.6	46.6
67.5°	50.2	48.4	45.3	42.1	39.8	37.7	35.0	35.9	36.3
70°	41.7	40.3	36.8	33.6	30.4	27.8	25.5	26.4	26.9
72.5°	34.0	32.2	29.2	25.5	22.8	19.3	17.9	18.8	18.8
75°	26.4	24.6	21.9	18.4	15.2	12.1	12.1	12.6	12.6
77.5°	19.7	17.9	15.2	12.1	9.4	7.2	7.6	7.6	7.6
80°	13.4	12.1	9.9	7.2	4.9	4.1	4.1	4.1	4.4
82.5°	7.6	6.7	5.3	3.6	2.3	2.3	2.3	2.3	2.3
85°	3.6	2.7	2.3	1.4	0.9	0.9	0.9	0.9	0.9
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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)