

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: P581440

Luminaire Tested: **HCC4W07D010BZ-HM40525830-41WWBB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581440
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W07D010BZ-HM40525830-41WWBB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

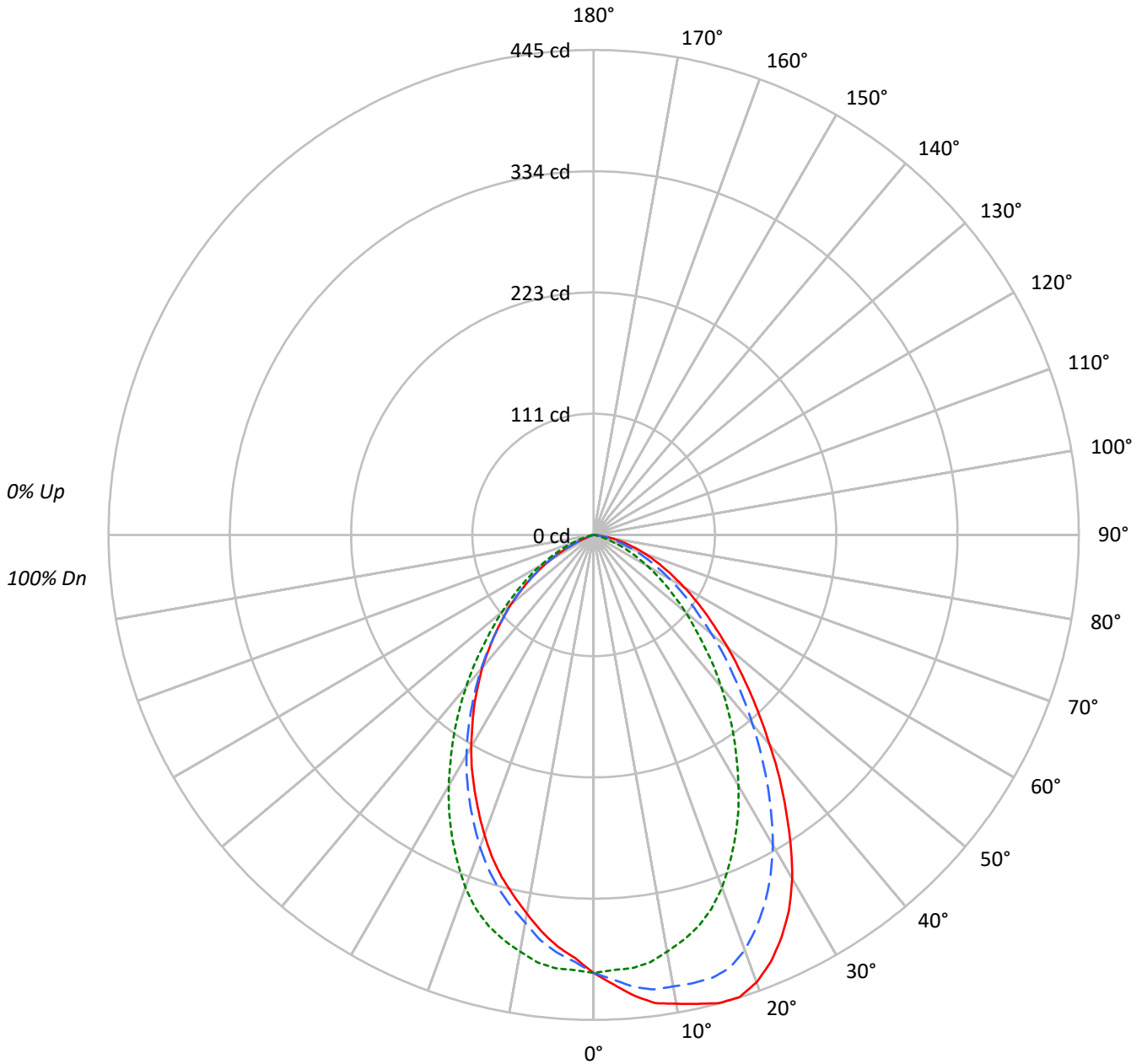
Lumens per Lamp: N/A
Luminaire Lumens: 694.2 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.04 / 1.12
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P581440
CATALOG NUMBER: HCC4W07D010BZ-HM40525830-41WWBB

Luminous Intensity Polar Plot



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



TEST NUMBER: P581440

CATALOG NUMBER: HCC4W07D010BZ-HM40525830-41WWBB

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	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89								
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78								
3	96	87	80	75	94	86	79	74	83	78	73	80	76	72	78	74	71	69								
4	89	79	72	66	87	78	71	65	75	69	65	73	68	64	71	67	63	61								
5	83	72	64	58	81	71	64	58	69	62	58	67	61	57	65	60	56	55								
6	77	66	58	52	75	65	57	52	63	57	52	61	56	51	60	55	51	49								
7	72	60	53	47	71	59	52	47	58	51	47	57	51	46	55	50	46	44								
8	68	56	48	43	66	55	48	43	54	47	42	53	47	42	51	46	42	40								
9	64	52	44	39	62	51	44	39	50	43	39	49	43	39	48	43	39	37								
10	60	48	41	36	59	47	41	36	46	40	36	46	40	36	45	39	36	34								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	49573	49573	49573
5°	52523	49415	46939
10°	54709	48621	44188
15°	56787	47452	41527
20°	57335	45167	38420
25°	55473	41782	35167
30°	51872	37857	31989
35°	46227	33654	28760
40°	40399	29289	25602
45°	35201	24840	22136
50°	30722	21070	18978
55°	26924	17440	15376
60°	23559	14086	11274
65°	20518	10507	6333
70°	17924	6816	2056
75°	14678	3527	524
80°	11010	1634	426
85°	6510	849	849



TEST NUMBER: P581440

CATALOG NUMBER: HCC4W07D010BZ-HM40525830-41WWBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.9	5.5
10°-20°	106.2	15.3
20°-30°	146.8	21.1
30°-40°	147.6	21.3
40°-50°	119.1	17.2
50°-60°	80.5	11.6
60°-70°	41.0	5.9
70°-80°	13.1	1.9
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°	290.9	41.9
0°-40°	438.5	63.2
0°-60°	638.1	91.9
0°-90°	694.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	694.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	402	402	402	402	402	
5°	424	416	399	385	379	41
15°	445	421	372	336	325	125
25°	408	372	307	269	258	187
35°	307	277	224	196	191	192
45°	202	181	142	127	127	156
55°	125	108	81	71	72	112
65°	70	57	36	23	22	70
75°	31	22	7	2	1	33
85°	5	2	1	1	1	6
90°	0	0	0	0	0	

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



TEST NUMBER: P581440

CATALOG NUMBER: HCC4W07D010BZ-HM40525830-41WWBB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9
2.5°	412.8	410.5	408.2	404.2	399.7	395.0	392.2	389.9	388.7
5°	424.2	421.3	416.2	407.6	399.1	391.0	384.8	380.8	379.1
7.5°	433.4	429.4	420.7	408.8	395.6	383.1	375.1	369.3	367.0
10°	436.8	432.2	420.7	404.8	388.2	372.7	361.3	355.6	352.8
12.5°	440.7	435.6	421.3	401.4	380.8	362.5	349.3	341.9	339.0
15°	444.7	437.9	420.7	396.1	371.6	350.5	336.2	328.8	325.2
17.5°	444.7	436.8	416.2	387.6	359.6	337.3	321.3	312.7	309.9
20°	436.8	427.7	405.4	373.9	344.1	320.1	304.8	296.1	292.7
22.5°	424.2	413.9	389.9	357.3	325.9	302.5	287.0	279.0	275.5
25°	407.6	397.3	372.1	338.4	307.0	283.6	269.3	261.9	258.4
27.5°	388.2	376.8	351.6	317.8	287.0	264.7	251.5	244.7	241.8
30°	364.2	353.3	328.8	295.5	265.8	245.2	233.3	226.9	224.6
32.5°	336.2	327.1	303.0	272.1	244.1	225.2	214.4	209.3	207.0
35°	307.0	298.4	277.3	248.7	223.5	205.9	195.5	192.1	191.0
37.5°	279.6	272.1	251.5	225.2	202.3	187.0	177.8	175.5	174.3
40°	250.9	245.8	226.9	202.9	181.9	168.1	160.7	159.0	159.0
42.5°	225.2	219.5	202.9	181.3	162.4	148.6	143.5	141.8	142.4
45°	201.8	196.1	180.6	160.7	142.4	130.9	126.9	126.9	126.9
47.5°	180.0	174.9	160.7	140.1	125.2	116.1	112.1	112.1	112.7
50°	160.1	156.6	140.7	122.9	109.8	101.2	98.3	97.8	98.9
52.5°	141.2	137.2	122.9	106.9	94.3	87.5	84.7	84.0	84.7
55°	125.2	120.6	108.0	92.6	81.1	74.3	70.9	70.3	71.5
57.5°	109.8	106.3	93.2	79.4	68.6	61.8	58.8	57.7	58.3
60°	95.5	92.1	80.0	66.9	57.1	50.3	46.3	45.2	45.7
62.5°	82.3	79.4	68.1	55.4	45.7	39.5	35.4	32.5	33.7
65°	70.3	67.5	57.1	44.6	36.0	29.1	23.4	21.2	21.7
67.5°	60.0	56.6	46.9	35.4	26.9	19.5	13.2	11.9	11.9
70°	49.7	46.3	37.8	27.4	18.9	10.2	5.7	5.7	5.7
72.5°	40.1	37.2	29.1	20.6	11.9	4.6	2.3	2.3	2.3
75°	30.8	28.6	21.7	14.3	7.4	2.3	1.7	1.1	1.1
77.5°	22.9	20.6	15.5	9.7	4.6	1.1	1.1	1.1	1.1
80°	15.5	13.8	10.2	5.7	2.3	0.6	0.6	0.6	0.6
82.5°	9.1	8.0	5.7	2.8	1.1	0.6	0.6	0.6	0.6
85°	4.6	3.4	2.3	1.1	0.6	0.6	0.6	0.6	0.6
87.5°	1.1	0.6	0.6	0.6	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)