

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: P579878

Luminaire Tested: **HCC4W15D010BZ-HM40525835-41RWWH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579878
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: HCC4W15D010BZ-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

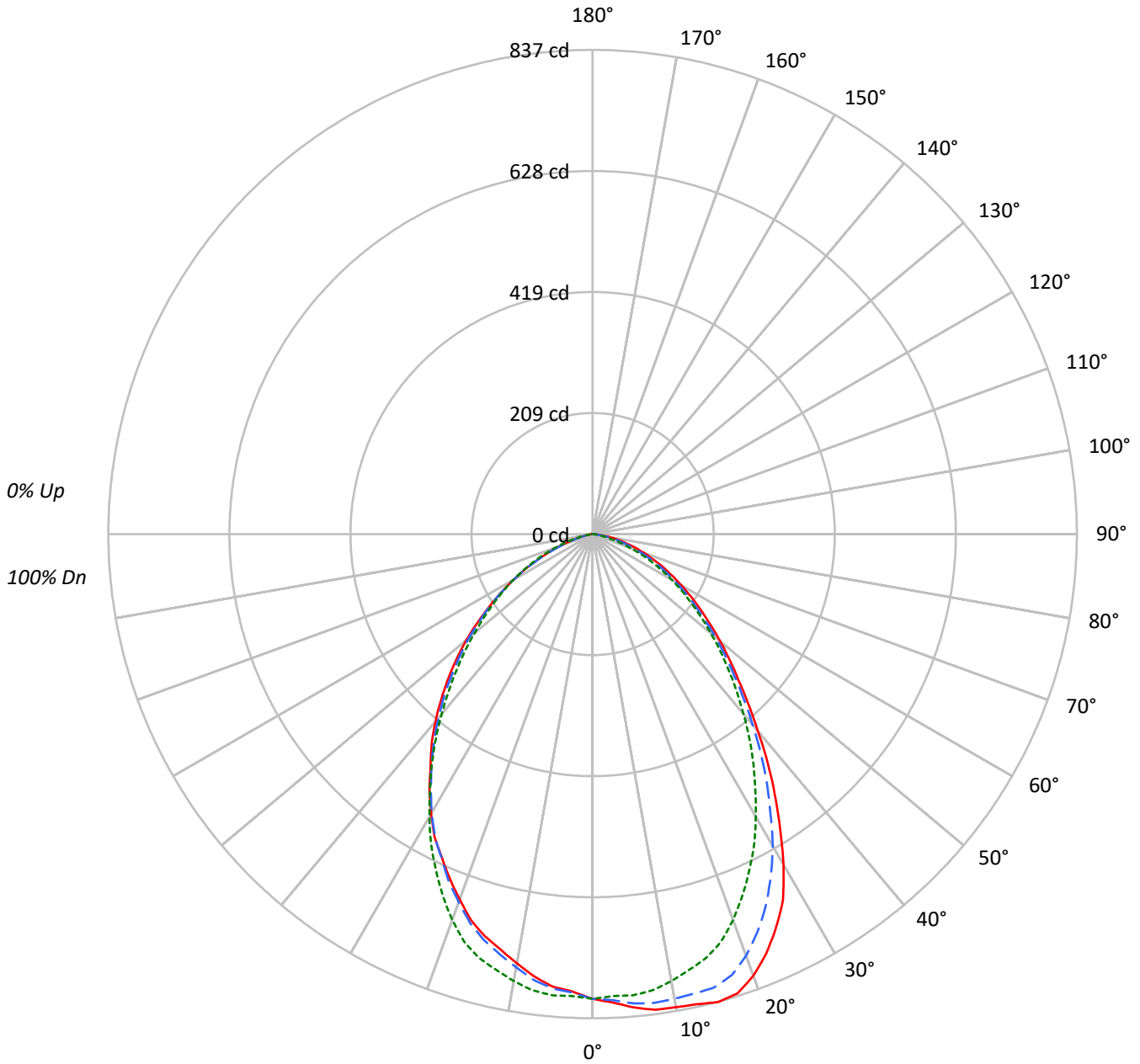
Lumens per Lamp: N/A
Luminaire Lumens: 1531.4 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 14
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: P579878
CATALOG NUMBER: HCC4W15D010BZ-HM40525835-41RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P579878

CATALOG NUMBER: HCC4W15D010BZ-HM40525835-41RWWH

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	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°	99096	99096	99096
5°	101703	99103	97246
10°	104006	98257	94375
15°	106933	96858	91891
20°	106637	93143	88168
25°	102141	87211	83945
30°	93959	80329	79460
35°	82652	72879	73497
40°	71507	65244	67981
45°	62152	57965	61472
50°	55150	51139	54593
55°	48923	44859	46794
60°	43590	38903	38903
65°	38730	32309	30295
70°	33467	24487	21602
75°	28070	16156	13344
80°	21239	7814	7103
85°	11322	2830	2830



TEST NUMBER: P579878
 CATALOG NUMBER: HCC4W15D010BZ-HM40525835-41RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.1	5.0
10°-20°	215.7	14.1
20°-30°	304.2	19.9
30°-40°	314.3	20.5
40°-50°	266.4	17.4
50°-60°	193.8	12.7
60°-70°	113.3	7.4
70°-80°	42.1	2.7
80°-90°	5.5	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°	596.0	38.9
0°-40°	910.3	59.4
0°-60°	1370.5	89.5
0°-90°	1531.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1531.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	803	803	803	803	803	
5°	821	814	800	788	785	79
15°	837	812	758	726	720	235
25°	750	709	641	618	617	343
35°	549	525	484	485	488	343
45°	356	346	332	344	352	277
55°	228	217	209	216	218	205
65°	133	122	111	104	104	132
75°	59	49	34	27	28	63
85°	8	5	2	2	2	11
90°	0	0	0	0	0	

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



TEST NUMBER: P579878

CATALOG NUMBER: HCC4W15D010BZ-HM40525835-41RWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	803.4	803.4	803.4	803.4	803.4	803.4	803.4	803.4	803.4
2.5°	810.5	808.4	806.5	803.4	799.4	796.5	793.5	791.5	791.5
5°	821.4	818.4	814.4	807.5	800.4	794.4	788.5	785.4	785.4
7.5°	829.4	825.5	817.4	807.5	795.4	786.5	777.5	773.5	771.5
10°	830.4	826.4	815.5	800.4	784.5	770.5	760.5	754.5	753.5
12.5°	832.4	827.4	813.4	792.5	771.5	754.5	743.6	737.6	735.5
15°	837.4	830.4	811.5	784.5	758.5	738.6	726.5	721.7	719.6
17.5°	832.4	822.4	799.4	767.5	738.6	716.7	704.6	699.6	699.6
20°	812.4	802.5	775.5	740.5	709.6	688.7	676.7	673.7	671.7
22.5°	784.5	773.5	744.5	707.7	676.7	657.8	649.8	645.7	644.8
25°	750.5	739.6	708.6	670.7	640.8	624.8	617.8	617.8	616.8
27.5°	712.7	698.7	666.7	633.8	604.9	592.8	589.9	589.9	590.9
30°	659.7	649.8	622.8	590.9	564.0	555.9	555.9	557.9	557.9
32.5°	602.8	595.9	571.9	543.9	523.0	518.0	520.0	524.0	525.0
35°	548.9	541.0	525.0	500.1	484.0	482.1	485.0	488.1	488.1
37.5°	496.1	488.1	477.1	457.1	445.1	446.2	450.1	454.1	457.1
40°	444.1	438.2	430.1	414.2	405.2	409.2	414.2	418.2	422.2
42.5°	398.2	392.3	386.2	374.3	368.3	373.3	379.3	383.3	387.3
45°	356.3	352.4	346.3	336.3	332.3	337.3	344.3	348.4	352.4
47.5°	320.4	318.4	310.4	301.4	299.4	304.4	310.4	315.4	318.4
50°	287.4	284.5	277.4	268.4	266.5	274.5	278.5	281.4	284.5
52.5°	255.5	252.5	244.6	236.5	236.5	242.5	245.5	246.5	249.6
55°	227.5	224.6	216.6	210.6	208.6	213.6	215.6	215.6	217.6
57.5°	201.6	198.6	190.7	183.6	182.6	185.7	185.7	185.7	186.7
60°	176.7	173.6	165.7	159.6	157.7	158.7	157.7	156.7	157.7
62.5°	153.7	150.7	142.7	135.8	133.7	133.7	130.8	129.7	130.8
65°	132.7	127.8	121.8	114.7	110.7	107.8	103.8	103.8	103.8
67.5°	111.8	107.8	100.9	93.8	88.8	83.8	77.9	79.8	80.8
70°	92.8	89.8	81.9	74.8	67.9	61.9	56.8	58.9	59.9
72.5°	75.8	71.9	64.9	56.8	50.9	42.9	39.9	42.0	42.0
75°	58.9	54.9	48.9	40.9	33.9	26.9	26.9	28.0	28.0
77.5°	43.9	39.9	33.9	26.9	20.9	15.9	16.9	16.9	16.9
80°	29.9	26.9	21.9	15.9	11.0	9.0	9.0	9.0	10.0
82.5°	16.9	15.0	11.9	8.0	5.0	5.0	5.0	5.0	5.0
85°	8.0	6.0	5.0	3.0	2.0	2.0	2.0	2.0	2.0
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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)