

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: P579895

Luminaire Tested: **HCC4W15D010BZ-HM40525840-41RWWC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579895
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: HCC4W15D010BZ-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

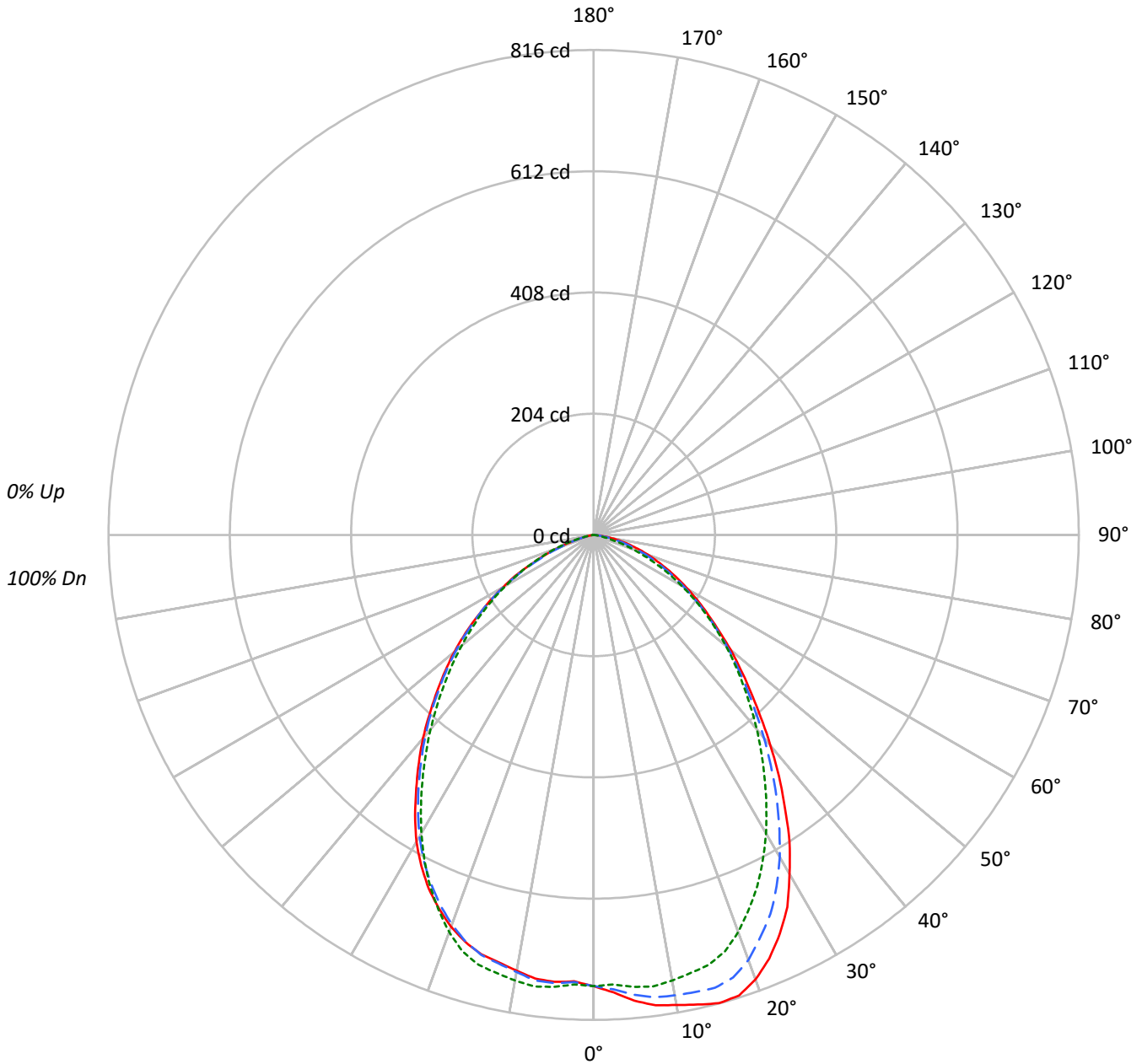
Lumens per Lamp: N/A
Luminaire Lumens: 1581.9 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.15 / 1.21
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P579895
CATALOG NUMBER: HCC4W15D010BZ-HM40525840-41RWWC

Luminous Intensity Polar Plot



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



TEST NUMBER: P579895

CATALOG NUMBER: HCC4W15D010BZ-HM40525840-41RWWC

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	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88					88			
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76					76			
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67					67			
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58					58			
5	81	70	62	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52					52			
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46					46			
7	70	58	50	44	69	57	49	44	56	49	44	54	48	44	53	47	43	41					41			
8	66	53	45	40	64	53	45	40	51	44	40	50	44	39	49	43	39	37					37			
9	62	49	42	36	60	49	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°	93632	93632	93632
5°	97419	94509	93482
10°	100600	95339	93273
15°	104150	95619	93270
20°	104484	93314	92093
25°	100793	88653	89348
30°	93803	82551	84887
35°	84489	75530	78315
40°	74486	68706	71862
45°	65135	61925	64960
50°	57683	55706	58661
55°	50729	49203	51181
60°	45293	42012	43270
65°	39810	34148	33506
70°	34766	25173	22937
75°	28833	15155	12248
80°	21878	5825	3623
85°	10190	1415	1415



TEST NUMBER: P579895

CATALOG NUMBER: HCC4W15D010BZ-HM40525840-41RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.2	4.6
10°-20°	213.7	13.5
20°-30°	309.4	19.6
30°-40°	326.5	20.6
40°-50°	282.5	17.9
50°-60°	209.3	13.2
60°-70°	120.6	7.6
70°-80°	42.1	2.7
80°-90°	4.4	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°	596.3	37.7
0°-40°	922.8	58.3
0°-60°	1414.7	89.4
0°-90°	1581.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1581.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	759	759	759	759	759	
5°	787	777	763	757	755	76
15°	816	789	749	731	730	229
25°	741	704	651	647	656	339
35°	561	536	502	513	520	350
45°	373	363	355	368	372	290
55°	236	231	229	237	238	213
65°	136	128	117	111	115	136
75°	60	51	32	26	26	65
85°	7	4	1	1	1	11
90°	0	0	0	0	0	



TEST NUMBER: P579895

CATALOG NUMBER: HCC4W15D010BZ-HM40525840-41RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	759.1	759.1	759.1	759.1	759.1	759.1	759.1	759.1	759.1
2.5°	770.4	768.4	765.3	761.2	757.0	753.9	752.9	751.9	751.9
5°	786.8	782.7	776.6	768.4	763.3	760.1	757.0	755.0	755.0
7.5°	798.1	794.0	784.8	773.5	766.3	760.1	756.0	752.9	752.9
10°	803.2	798.1	786.8	772.5	761.2	752.9	746.8	744.7	744.7
12.5°	809.4	803.2	787.8	769.4	755.0	744.7	738.6	736.5	736.5
15°	815.6	808.4	788.9	767.4	748.8	736.5	731.4	730.4	730.4
17.5°	812.5	803.2	780.7	755.0	734.5	722.2	717.1	717.1	718.1
20°	796.0	786.8	761.2	732.5	710.9	701.6	697.5	699.6	701.6
22.5°	771.5	760.1	732.5	704.7	682.2	674.0	674.0	677.1	680.2
25°	740.6	730.4	703.7	673.0	651.4	645.2	647.3	652.4	656.5
27.5°	705.7	694.5	666.7	638.1	616.5	613.4	618.5	625.8	627.9
30°	658.6	649.3	625.8	598.1	579.6	578.6	585.8	590.9	596.0
32.5°	613.4	603.2	580.7	553.9	540.6	541.7	549.9	556.0	559.1
35°	561.1	551.9	535.5	513.9	501.6	503.7	512.9	519.0	520.1
37.5°	511.9	505.7	489.4	472.9	463.7	467.8	475.9	483.1	483.1
40°	462.6	457.5	445.2	431.8	426.7	431.8	440.1	446.3	446.3
42.5°	415.5	412.4	402.2	392.9	389.8	397.0	404.2	409.3	408.3
45°	373.4	370.3	363.2	356.0	355.0	362.1	368.3	371.3	372.4
47.5°	335.4	333.4	327.2	322.1	322.1	329.3	334.4	337.5	338.5
50°	300.6	298.5	293.3	289.3	290.3	297.4	301.6	304.7	305.7
52.5°	265.7	264.7	260.6	255.5	258.6	263.7	268.8	270.8	271.9
55°	235.9	235.9	230.8	226.7	228.8	233.9	237.0	238.0	238.0
57.5°	209.3	208.3	202.0	198.0	199.0	204.1	206.1	207.2	207.2
60°	183.6	182.6	176.5	170.3	170.3	173.4	174.4	175.4	175.4
62.5°	159.0	157.9	150.8	145.6	143.6	142.6	142.6	144.6	148.7
65°	136.4	135.4	128.3	120.1	117.0	113.8	110.7	112.8	114.8
67.5°	116.0	113.8	106.7	99.5	92.3	87.2	82.1	85.2	89.3
70°	96.4	94.4	86.2	78.0	69.8	61.5	57.4	61.5	63.6
72.5°	78.0	76.0	67.7	59.5	49.2	41.0	40.0	41.0	42.1
75°	60.5	59.5	51.3	42.1	31.8	25.7	25.7	25.7	25.7
77.5°	45.1	43.1	34.9	26.7	18.4	14.3	13.3	13.3	13.3
80°	30.8	28.8	21.5	15.3	8.2	6.1	6.1	5.1	5.1
82.5°	17.4	16.4	11.3	6.1	3.1	2.0	2.0	2.0	2.0
85°	7.2	6.1	4.1	2.0	1.0	1.0	1.0	1.0	1.0
87.5°	1.0	1.0	1.0	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)