

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: P579881

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579881
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: HCC4W15D010BZ-HM40525835-41WWWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

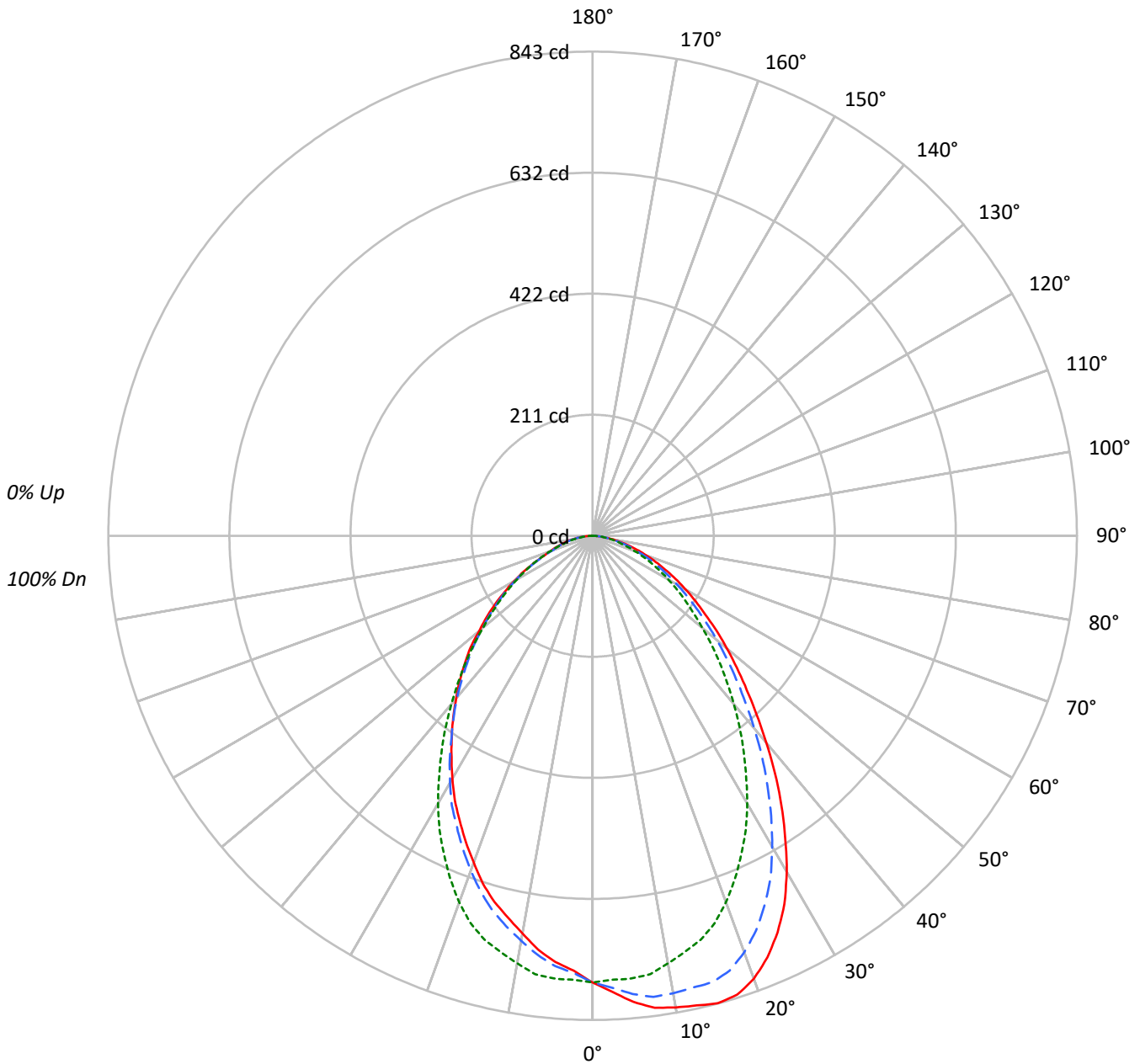
Lumens per Lamp: N/A
Luminaire Lumens: 1508.4 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P579881
CATALOG NUMBER: HCC4W15D010BZ-HM40525835-41WWWB

Luminous Intensity Polar Plot



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



TEST NUMBER: P579881

CATALOG NUMBER: HCC4W15D010BZ-HM40525835-41WWWB

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	95938	95938	95938
5°	100886	95809	92219
10°	104432	94675	88037
15°	107610	92950	84280
20°	107726	89114	79426
25°	103679	83291	74459
30°	96267	76640	69533
35°	86311	69010	64357
40°	75726	61573	59479
45°	66181	54529	54860
50°	58431	47723	49431
55°	51547	42300	44450
60°	46057	37448	38903
65°	40773	32922	32922
70°	35631	28094	28094
75°	30453	23781	26640
80°	24151	21239	24151
85°	15568	18398	22644



TEST NUMBER: P579881

CATALOG NUMBER: HCC4W15D010BZ-HM40525835-41WWWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.7	4.9
10°-20°	207.5	13.8
20°-30°	290.7	19.3
30°-40°	299.5	19.9
40°-50°	255.0	16.9
50°-60°	189.0	12.5
60°-70°	118.6	7.9
70°-80°	58.9	3.9
80°-90°	15.5	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°	572.0	37.9
0°-40°	871.5	57.8
0°-60°	1315.5	87.2
0°-90°	1508.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1508.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	778	778	778	778	778	
5°	815	801	774	752	745	78
15°	843	805	728	675	660	237
25°	762	709	612	559	547	348
35°	573	530	458	428	427	357
45°	379	354	313	306	314	294
55°	240	221	197	201	207	217
65°	140	126	113	111	113	139
75°	64	57	50	54	56	68
85°	11	11	13	15	16	14
90°	0	0	0	0	0	

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



TEST NUMBER: P579881

CATALOG NUMBER: HCC4W15D010BZ-HM40525835-41WWWB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	777.8	777.8	777.8	777.8	777.8	777.8	777.8	777.8	777.8
2.5°	794.8	791.8	787.8	780.8	773.8	767.8	761.8	758.8	757.8
5°	814.8	808.7	800.8	787.8	773.8	761.8	751.9	746.9	744.8
7.5°	828.8	822.7	809.8	789.8	769.9	751.9	735.9	728.9	726.9
10°	833.8	826.7	808.7	781.8	755.9	733.8	715.9	706.9	702.9
12.5°	837.7	828.8	805.8	773.8	741.9	714.9	696.0	683.9	680.9
15°	842.7	832.7	804.8	765.8	727.9	696.0	674.9	664.0	660.0
17.5°	837.7	826.7	793.7	749.9	706.9	672.0	649.0	639.0	635.0
20°	820.7	808.7	771.8	724.8	678.9	643.0	620.0	610.1	605.1
22.5°	794.8	781.8	743.8	693.9	647.0	612.0	590.1	580.1	577.1
25°	761.8	748.8	708.9	658.0	612.0	578.2	559.2	550.2	547.1
27.5°	722.9	709.9	670.9	621.0	577.1	545.2	530.2	521.2	519.2
30°	675.9	663.0	625.0	579.1	538.1	508.2	496.2	489.3	488.2
32.5°	624.0	613.1	578.2	536.2	497.2	472.3	463.3	458.3	457.3
35°	573.2	561.1	530.2	492.2	458.3	436.4	428.3	427.4	427.4
37.5°	521.2	509.3	484.2	449.3	420.3	400.3	397.4	398.4	398.4
40°	470.3	459.3	437.3	408.4	382.4	367.5	366.5	368.4	369.4
42.5°	422.4	413.4	393.4	368.4	346.4	334.5	335.5	339.5	342.5
45°	379.4	371.5	353.5	331.4	312.6	303.6	306.5	311.5	314.5
47.5°	340.5	333.5	316.5	296.5	280.6	274.6	278.6	284.6	288.6
50°	304.5	298.6	282.5	261.6	248.7	244.6	249.6	255.6	257.6
52.5°	272.5	266.6	249.6	231.6	221.7	219.7	224.7	229.7	232.6
55°	239.7	234.7	220.7	204.7	196.7	195.7	200.7	204.7	206.7
57.5°	212.6	207.7	194.7	180.7	173.7	172.7	177.7	180.7	181.7
60°	186.7	181.7	169.8	156.8	151.8	151.8	154.7	156.8	157.7
62.5°	162.7	157.7	146.8	135.8	131.8	131.8	131.8	132.8	135.8
65°	139.7	135.8	125.8	115.9	112.8	110.9	110.9	110.9	112.8
67.5°	118.8	114.8	106.9	97.9	94.8	91.9	90.8	92.9	92.9
70°	98.8	95.8	87.9	80.8	77.9	74.9	73.9	77.9	77.9
72.5°	80.8	77.9	72.9	65.9	62.9	61.9	63.9	65.9	66.9
75°	63.9	60.9	57.0	52.9	49.9	50.9	53.9	54.9	55.9
77.5°	48.0	47.0	43.0	39.9	39.9	40.9	43.0	44.9	45.9
80°	34.0	33.0	30.9	29.0	29.9	31.9	33.0	34.9	34.0
82.5°	20.9	20.9	20.0	20.0	20.9	23.0	24.0	25.0	25.9
85°	11.0	11.0	11.0	11.9	13.0	14.0	15.0	16.0	16.0
87.5°	3.0	4.0	4.0	5.0	6.0	6.0	6.9	6.9	6.9
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)