

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: P592637

Luminaire Tested: **HCC4W15D010MB-HM40525850-41WWWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592637
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: HCC4W15D010MB-HM40525850-41WWWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

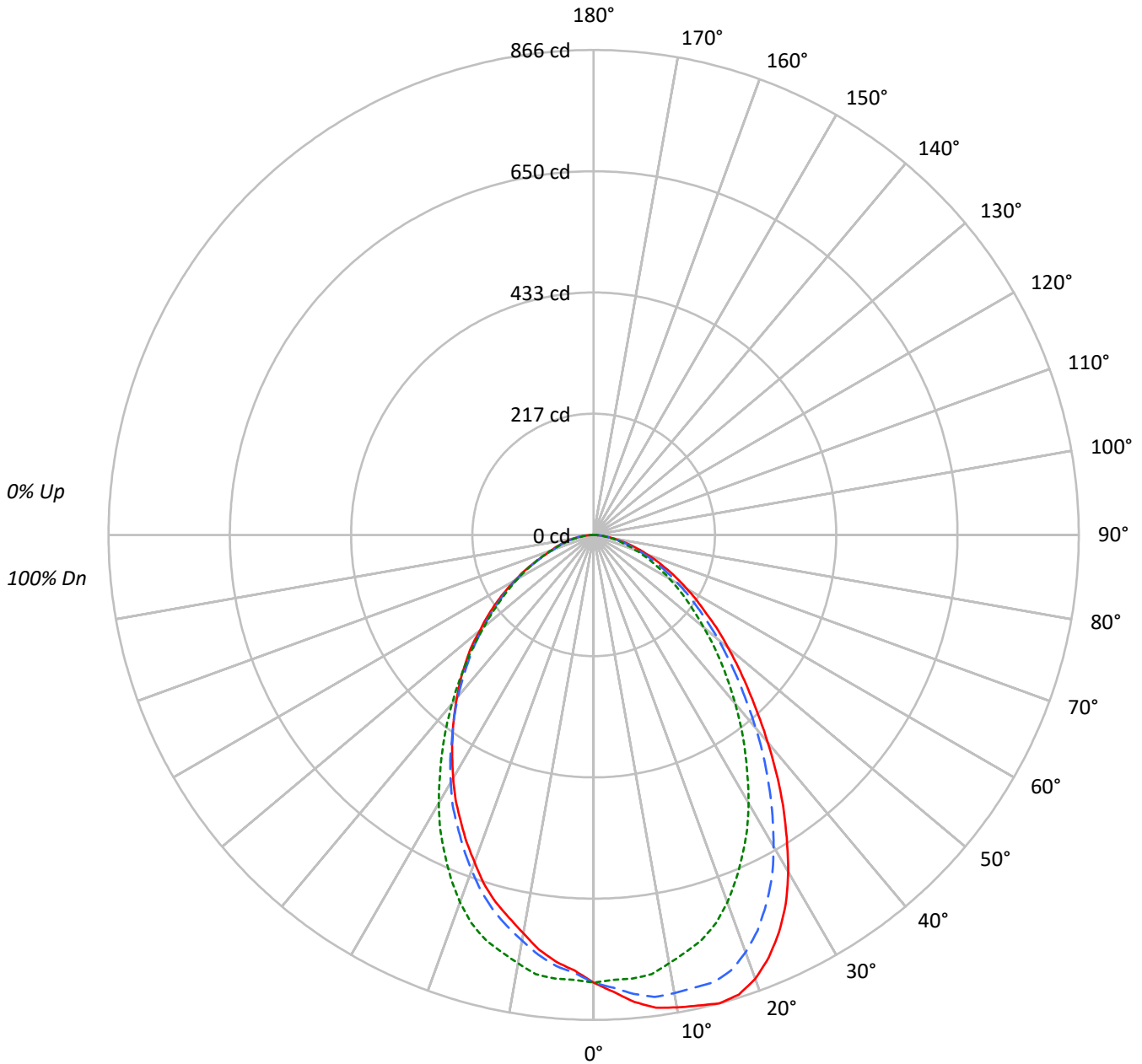
Lumens per Lamp: N/A
Luminaire Lumens: 1550.1 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P592637
CATALOG NUMBER: HCC4W15D010MB-HM40525850-41WWWB

Luminous Intensity Polar Plot



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



TEST NUMBER: P592637

CATALOG NUMBER: HCC4W15D010MB-HM40525850-41WWWB

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°	98590	98590	98590
5°	103672	98459	94769
10°	107300	97280	90467
15°	110573	95517	86604
20°	110706	91581	81619
25°	106537	85605	76514
30°	98930	78762	71470
35°	88690	70907	66118
40°	77803	63263	61122
45°	68013	56029	56378
50°	60043	49028	50794
55°	52966	43482	45676
60°	47340	38484	39989
65°	41911	33856	33856
70°	36605	28851	28851
75°	31311	24448	27355
80°	24790	21878	24790
85°	15992	18823	23210



TEST NUMBER: P592637
 CATALOG NUMBER: HCC4W15D010MB-HM40525850-41WWWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.7	4.9
10°-20°	213.3	13.8
20°-30°	298.8	19.3
30°-40°	307.8	19.9
40°-50°	262.1	16.9
50°-60°	194.2	12.5
60°-70°	121.8	7.9
70°-80°	60.5	3.9
80°-90°	15.9	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°	587.8	37.9
0°-40°	895.6	57.8
0°-60°	1351.8	87.2
0°-90°	1550.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1550.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	799	799	799	799	799	
5°	837	823	795	773	765	80
15°	866	827	748	694	678	243
25°	783	728	629	574	562	358
35°	589	545	471	440	439	367
45°	390	363	321	315	323	303
55°	246	227	202	206	212	223
65°	144	129	116	114	116	143
75°	66	58	51	55	57	70
85°	11	11	13	15	16	15
90°	0	0	0	0	0	

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



TEST NUMBER: P592637

CATALOG NUMBER: HCC4W15D010MB-HM40525850-41WWWB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	799.3	799.3	799.3	799.3	799.3	799.3	799.3	799.3	799.3
2.5°	816.7	813.6	809.5	802.4	795.2	789.1	782.8	779.8	778.7
5°	837.3	831.0	822.8	809.5	795.2	782.8	772.6	767.5	765.4
7.5°	851.6	845.5	832.2	811.6	791.1	772.6	756.2	749.1	747.0
10°	856.7	849.6	831.0	803.4	776.7	754.2	735.6	726.4	722.3
12.5°	860.8	851.6	828.0	795.2	762.4	734.6	715.2	702.8	699.7
15°	865.9	855.7	826.9	786.9	748.0	715.2	693.6	682.3	678.2
17.5°	860.8	849.6	815.7	770.5	726.4	690.5	667.0	656.6	652.5
20°	843.4	831.0	793.2	744.8	697.7	660.7	637.2	626.9	621.8
22.5°	816.7	803.4	764.4	713.1	664.9	629.0	606.4	596.1	593.1
25°	782.8	769.5	728.5	676.2	629.0	594.1	574.5	565.3	562.2
27.5°	742.8	729.5	689.5	638.2	593.1	560.2	544.9	535.6	533.6
30°	694.6	681.3	642.3	595.1	553.0	522.2	509.9	502.8	501.8
32.5°	641.3	630.0	594.1	551.0	511.0	485.3	476.1	470.9	469.9
35°	589.0	576.7	544.9	505.9	470.9	448.4	440.1	439.1	439.1
37.5°	535.6	523.2	497.7	461.7	431.9	411.5	408.4	409.4	409.4
40°	483.2	472.0	449.5	419.7	392.9	377.6	376.6	378.6	379.6
42.5°	434.0	424.8	404.2	378.6	356.0	343.7	344.7	348.8	351.9
45°	389.9	381.7	363.3	340.6	321.2	311.9	314.9	320.2	323.2
47.5°	349.9	342.7	325.3	304.7	288.3	282.2	286.3	292.4	296.5
50°	312.9	306.8	290.4	268.8	255.5	251.4	256.5	262.6	264.7
52.5°	280.2	273.9	256.5	238.1	227.7	225.7	230.8	236.0	239.1
55°	246.3	241.2	226.7	210.3	202.2	201.1	206.3	210.3	212.4
57.5°	218.5	213.4	200.1	185.7	178.5	177.5	182.6	185.7	186.7
60°	191.9	186.7	174.4	161.1	156.0	156.0	159.1	161.1	162.1
62.5°	167.3	162.1	150.9	139.5	135.4	135.4	135.4	136.4	139.5
65°	143.6	139.5	129.3	119.0	116.0	113.9	113.9	113.9	116.0
67.5°	122.1	118.0	109.8	100.5	97.4	94.4	93.3	95.4	95.4
70°	101.5	98.5	90.3	83.1	80.0	77.0	76.0	80.0	80.0
72.5°	83.1	80.0	74.9	67.8	64.7	63.6	65.7	67.8	68.8
75°	65.7	62.5	58.4	54.3	51.3	52.3	55.4	56.4	57.4
77.5°	49.2	48.2	44.1	41.0	41.0	42.1	44.1	46.2	47.2
80°	34.9	33.9	31.8	29.8	30.8	32.9	33.9	35.9	34.9
82.5°	21.6	21.6	20.5	20.5	21.6	23.6	24.7	25.7	26.7
85°	11.3	11.3	11.3	12.3	13.3	14.3	15.3	16.4	16.4
87.5°	3.1	4.1	4.1	5.1	6.1	6.1	7.2	7.2	7.2
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)