

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: P579736

Luminaire Tested: **HCC4W10D010MW-HM40525835-41WWW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579736
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W10D010MW-HM40525835-41WWW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

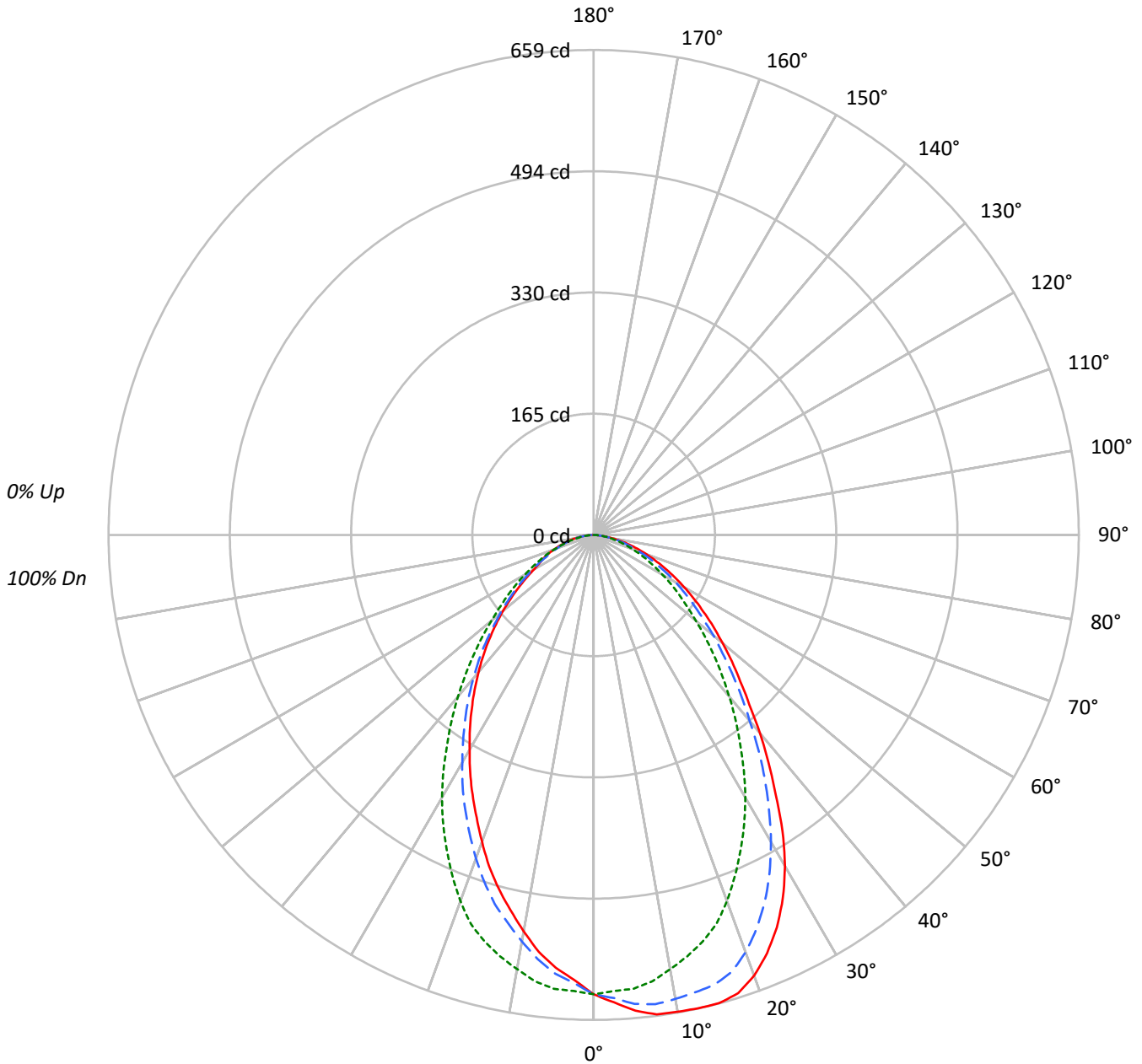
Lumens per Lamp: N/A
Luminaire Lumens: 1114.6 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.03 / 1.1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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: P579736
CATALOG NUMBER: HCC4W10D010MW-HM40525835-41WWW

Luminous Intensity Polar Plot



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



TEST NUMBER: P579736

CATALOG NUMBER: HCC4W10D010MW-HM40525835-41WWW

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	111	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87								
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76								
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66								
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58								
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52								
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	47								
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	53	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	42	37	47	41	37	46	41	37	35								
10	59	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°	76980	76980	76980
5°	80369	76643	73101
10°	82401	75049	68511
15°	84114	73043	63580
20°	83666	69490	58215
25°	80147	64265	52969
30°	74034	58680	48012
35°	64914	52190	43457
40°	56517	46099	39143
45°	49191	40225	34957
50°	43828	34656	30856
55°	39160	30472	26666
60°	34956	26618	22992
65°	31083	23349	21860
70°	27300	20124	20412
75°	23114	17157	18872
80°	17687	14633	17190
85°	10473	11463	14435



TEST NUMBER: P579736
 CATALOG NUMBER: HCC4W10D010MW-HM40525835-41WWW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.5	5.2
10°-20°	161.4	14.5
20°-30°	220.5	19.8
30°-40°	221.4	19.9
40°-50°	183.2	16.4
50°-60°	132.7	11.9
60°-70°	84.1	7.5
70°-80°	42.5	3.8
80°-90°	10.4	0.9
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°	440.4	39.5
0°-40°	661.8	59.4
0°-60°	977.6	87.7
0°-90°	1114.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1114.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	624	624	624	624	624	
5°	649	640	619	598	590	62
15°	659	633	572	519	498	185
25°	589	550	472	413	389	269
35°	431	405	347	304	289	270
45°	282	266	231	208	200	219
55°	182	166	142	129	124	164
65°	106	95	80	72	75	106
75°	48	42	36	37	40	52
85°	7	7	8	10	10	10
90°	0	0	0	0	0	

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



TEST NUMBER: P579736

CATALOG NUMBER: HCC4W10D010MW-HM40525835-41WWW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	624.1	624.1	624.1	624.1	624.1	624.1	624.1	624.1	624.1
2.5°	635.9	633.6	630.0	625.6	620.4	614.6	609.4	606.6	605.1
5°	649.1	646.2	639.6	630.0	619.0	608.0	598.5	592.6	590.4
7.5°	657.2	652.8	643.2	628.5	611.7	595.5	581.5	573.4	571.3
10°	657.9	652.8	640.2	620.4	599.2	577.9	561.0	549.2	547.0
12.5°	658.7	652.1	636.6	613.2	586.6	560.2	539.6	525.8	522.1
15°	658.7	652.1	633.0	605.1	572.0	541.9	519.2	503.0	497.9
17.5°	652.8	645.5	622.7	590.4	554.4	520.6	494.1	477.3	472.2
20°	637.4	629.3	603.6	568.3	529.4	494.1	467.7	450.1	443.5
22.5°	615.3	605.8	578.6	540.4	501.5	465.6	439.8	421.5	415.6
25°	588.9	579.4	550.0	512.6	472.2	438.4	412.6	395.8	389.2
27.5°	556.6	546.4	517.7	480.2	442.8	409.0	385.4	370.1	363.5
30°	519.8	508.8	481.7	445.8	412.0	379.6	356.9	344.4	337.1
32.5°	477.3	467.7	443.5	411.2	379.6	348.8	329.7	318.6	312.8
35°	431.1	425.8	405.4	377.5	346.6	320.9	304.0	293.7	288.6
37.5°	389.9	384.8	367.1	343.7	316.5	292.9	279.0	270.2	265.8
40°	351.0	346.6	329.7	309.9	286.3	265.8	254.1	247.4	243.1
42.5°	312.8	310.6	296.7	278.2	257.8	240.1	230.6	225.4	221.8
45°	282.0	279.0	265.8	248.2	230.6	215.9	207.8	204.2	200.4
47.5°	254.8	251.2	237.2	221.8	205.6	192.4	185.0	181.4	179.9
50°	228.4	224.6	212.2	196.8	180.6	171.0	165.2	161.6	160.8
52.5°	204.8	201.2	187.2	172.5	160.1	152.0	146.8	143.2	141.7
55°	182.1	177.6	165.9	152.0	141.7	134.4	129.3	125.5	124.0
57.5°	161.6	157.2	146.8	133.6	124.0	117.4	113.1	109.4	107.9
60°	141.7	138.0	128.5	116.0	107.9	102.1	97.6	94.7	93.2
62.5°	123.4	120.4	110.8	99.9	93.2	88.1	84.4	81.5	83.0
65°	106.5	103.6	94.7	85.1	80.0	74.9	71.9	71.9	74.9
67.5°	90.4	87.4	80.0	71.9	67.6	63.8	61.7	63.8	66.1
70°	75.7	72.7	66.1	59.5	55.8	52.9	52.9	55.1	56.6
72.5°	61.7	58.7	53.6	48.5	45.5	43.4	45.5	47.0	48.5
75°	48.5	46.2	41.9	38.2	36.0	35.3	37.4	38.9	39.6
77.5°	36.0	34.5	31.5	28.7	27.2	27.9	30.2	30.8	31.5
80°	24.9	24.2	22.1	20.6	20.6	21.3	22.8	23.4	24.2
82.5°	15.4	15.4	14.0	13.2	14.0	15.4	16.2	16.8	16.8
85°	7.4	8.1	7.4	7.4	8.1	9.6	9.6	10.2	10.2
87.5°	2.2	2.2	3.0	3.0	3.6	3.6	3.6	3.6	4.4
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)