

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: P579718

Luminaire Tested: **HCC4W10D010MB-HM40525830-41WWW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579718
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: HCC4W10D010MB-HM40525830-41WWW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

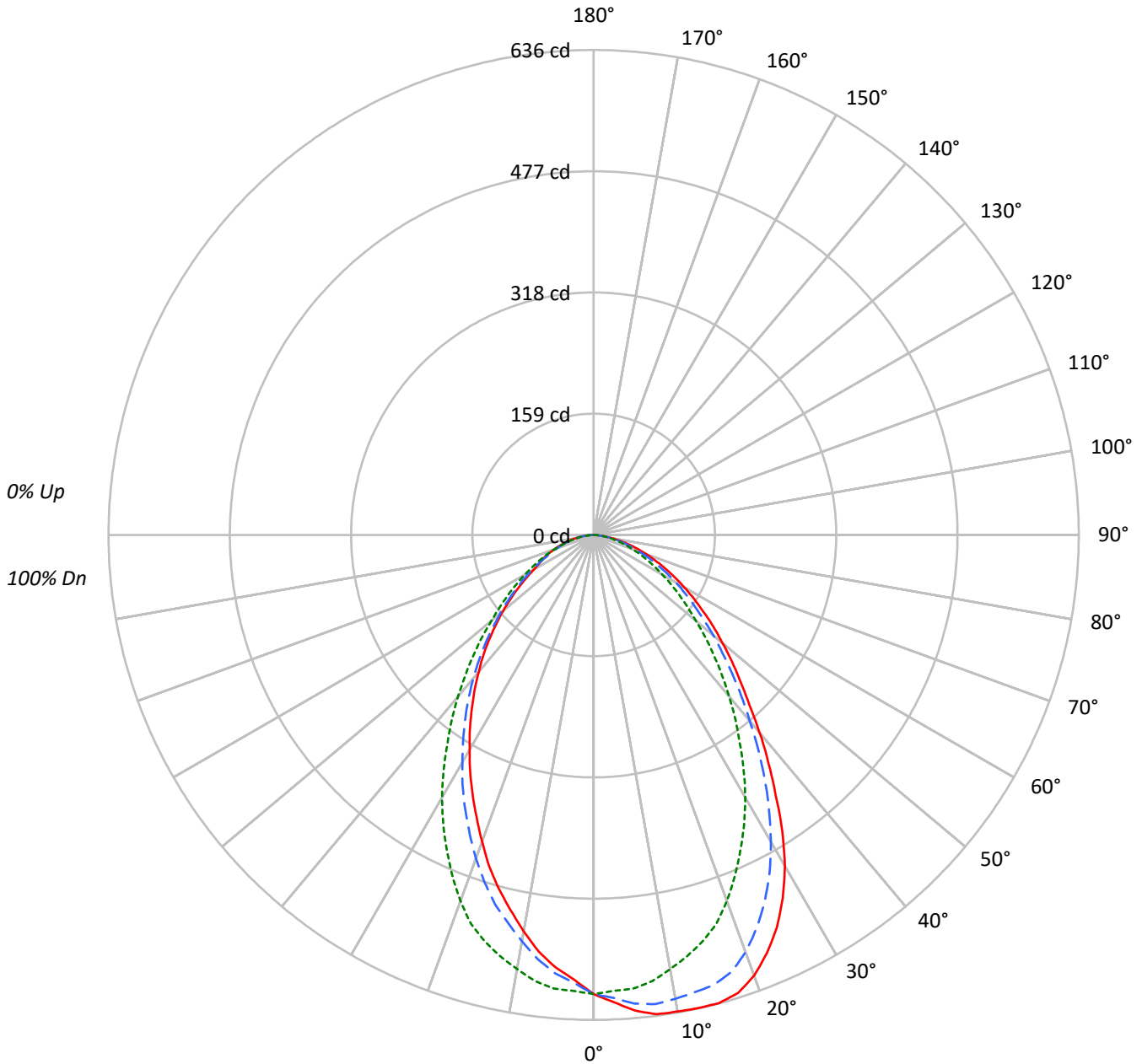
Lumens per Lamp: N/A
Luminaire Lumens: 1075.3 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.03 / 1.1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P579718
CATALOG NUMBER: HCC4W10D010MB-HM40525830-41WWW

Luminous Intensity Polar Plot





TEST NUMBER: P579718

CATALOG NUMBER: HCC4W10D010MB-HM40525830-41WWW

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				100				
1	111	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87				87				
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76				76				
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66				66				
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	69	61	56	67	60	55	65	59	54	63	58	54	52				52				
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	47				47				
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	53	48	44	42				42				
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38				38				
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35				35				
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32				32				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	74266	74266	74266
5°	77534	73943	70526
10°	79495	72406	66106
15°	81151	70463	61320
20°	80713	67035	56167
25°	77317	61992	51091
30°	71427	56601	46303
35°	62610	50338	41921
40°	54520	44489	37742
45°	47447	38812	33719
50°	42274	33428	29762
55°	37784	29397	25741
60°	33723	25681	22202
65°	30003	22561	21102
70°	26291	19402	19655
75°	22304	16537	18205
80°	17119	14064	16550
85°	10048	10897	14011



TEST NUMBER: P579718
 CATALOG NUMBER: HCC4W10D010MB-HM40525830-41WWW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.4	5.2
10°-20°	155.7	14.5
20°-30°	212.7	19.8
30°-40°	213.6	19.9
40°-50°	176.7	16.4
50°-60°	128.0	11.9
60°-70°	81.1	7.5
70°-80°	41.0	3.8
80°-90°	10.0	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°	424.8	39.5
0°-40°	638.4	59.4
0°-60°	943.1	87.7
0°-90°	1075.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1075.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	602	602	602	602	602	
5°	626	617	597	577	570	60
15°	636	611	552	501	480	179
25°	568	530	456	398	375	260
35°	416	391	334	293	278	261
45°	272	256	222	200	193	212
55°	176	160	137	125	120	158
65°	103	91	77	69	72	102
75°	47	40	35	36	38	50
85°	7	7	8	9	10	10
90°	0	0	0	0	0	

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



TEST NUMBER: P579718

CATALOG NUMBER: HCC4W10D010MB-HM40525830-41WWW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	602.1	602.1	602.1	602.1	602.1	602.1	602.1	602.1	602.1
2.5°	613.5	611.3	607.8	603.6	598.6	592.9	588.0	585.2	583.7
5°	626.2	623.4	617.0	607.8	597.2	586.5	577.3	571.6	569.6
7.5°	634.0	629.8	620.6	606.3	590.1	574.5	561.0	553.3	551.1
10°	634.7	629.8	617.7	598.6	578.1	557.5	541.2	529.9	527.8
12.5°	635.5	629.1	614.2	591.5	566.0	540.6	520.6	507.2	503.7
15°	635.5	629.1	610.7	583.7	551.8	522.8	500.8	485.2	480.2
17.5°	629.8	622.7	600.8	569.6	534.9	502.2	476.7	460.4	455.5
20°	614.9	607.1	582.3	548.3	510.7	476.7	451.2	434.3	427.9
22.5°	593.6	584.5	558.2	521.4	483.9	449.2	424.4	406.6	400.9
25°	568.1	558.9	530.5	494.5	455.5	422.9	398.1	381.8	375.4
27.5°	536.9	527.0	499.5	463.3	427.2	394.5	371.9	357.0	350.6
30°	501.5	490.9	464.8	430.1	397.4	366.2	344.2	332.2	325.1
32.5°	460.4	451.2	427.9	396.7	366.2	336.5	318.1	307.5	301.8
35°	415.8	410.8	391.0	364.2	334.3	309.5	293.3	283.4	278.4
37.5°	376.1	371.2	354.1	331.5	305.3	282.7	269.1	260.7	256.4
40°	338.6	334.3	318.1	299.0	276.3	256.4	245.1	238.8	234.4
42.5°	301.8	299.6	286.2	268.5	248.7	231.7	222.5	217.5	213.9
45°	272.0	269.1	256.4	239.4	222.5	208.3	200.5	197.0	193.3
47.5°	245.8	242.3	228.9	213.9	198.4	185.6	178.6	175.0	173.5
50°	220.3	216.8	204.7	189.8	174.2	165.0	159.4	155.8	155.1
52.5°	197.7	194.1	180.6	166.5	154.4	146.7	141.7	138.2	136.7
55°	175.7	171.4	160.1	146.7	136.7	129.6	124.7	121.1	119.7
57.5°	155.8	151.6	141.7	128.9	119.7	113.3	109.1	105.6	104.1
60°	136.7	133.1	123.9	112.0	104.1	98.4	94.2	91.4	90.0
62.5°	119.0	116.2	107.0	96.4	90.0	85.0	81.5	78.6	80.0
65°	102.8	99.9	91.4	82.2	77.3	72.3	69.4	69.4	72.3
67.5°	87.2	84.3	77.3	69.4	65.2	61.7	59.5	61.7	63.7
70°	72.9	70.1	63.7	57.4	53.8	51.0	51.0	53.1	54.5
72.5°	59.5	56.7	51.7	46.8	43.9	41.8	43.9	45.3	46.8
75°	46.8	44.6	40.4	36.9	34.7	34.0	36.1	37.6	38.2
77.5°	34.7	33.3	30.5	27.7	26.2	27.0	29.0	29.7	30.5
80°	24.1	23.3	21.3	19.8	19.8	20.6	22.0	22.6	23.3
82.5°	14.9	14.9	13.4	12.7	13.4	14.9	15.6	16.3	16.3
85°	7.1	7.7	7.1	7.1	7.7	9.2	9.2	9.9	9.9
87.5°	2.2	2.2	2.8	2.8	3.5	3.5	3.5	3.5	4.2
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)