

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: P581117

Luminaire Tested: **HCC4W05D010MB-HM40525940-41WWW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581117
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: HCC4W05D010MB-HM40525940-41WWW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

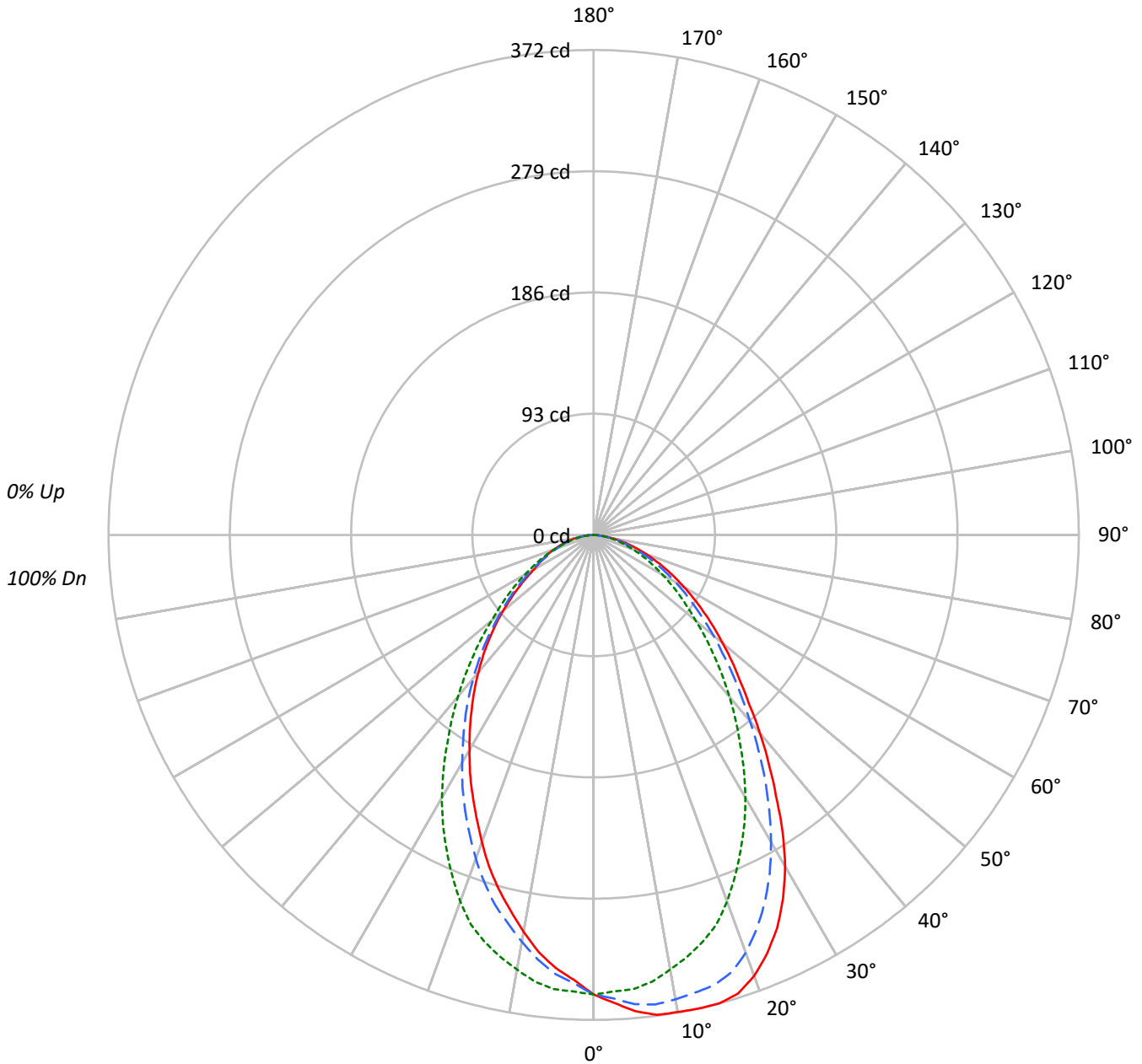
Lumens per Lamp: N/A
Luminaire Lumens: 629.6 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.03 / 1.1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 6
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: P581117
CATALOG NUMBER: HCC4W05D010MB-HM40525940-41WWW

Luminous Intensity Polar Plot





TEST NUMBER: P581117

CATALOG NUMBER: HCC4W05D010MB-HM40525940-41WWW

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	100	100
1	111	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87	87	87	87
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76	76	76	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66	66	66	66
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58	58	58	58
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52	52	52	52
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	47	47	47	47
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	53	48	44	42	42	42	42
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38	38	38	38
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35	35	35	35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32	32	32	32

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	43479	43479	43479
5°	45404	43299	41293
10°	46542	42397	38714
15°	47516	41259	35921
20°	47254	39260	32881
25°	45279	36297	29914
30°	41817	33143	27104
35°	36666	29483	24544
40°	31930	26036	22108
45°	27770	22712	19764
50°	24754	19573	17424
55°	22107	17204	15075
60°	19735	15023	13001
65°	17570	13192	12346
70°	15399	11396	11504
75°	13058	9674	10675
80°	10016	8240	9731
85°	5944	6369	8208



TEST NUMBER: P581117
 CATALOG NUMBER: HCC4W05D010MB-HM40525940-41WWW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.0	5.2
10°-20°	91.2	14.5
20°-30°	124.5	19.8
30°-40°	125.1	19.9
40°-50°	103.5	16.4
50°-60°	75.0	11.9
60°-70°	47.5	7.5
70°-80°	24.0	3.8
80°-90°	5.9	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°	248.8	39.5
0°-40°	373.8	59.4
0°-60°	552.2	87.7
0°-90°	629.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	629.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	352	352	352	352	352	
5°	367	361	350	338	334	35
15°	372	358	323	293	281	105
25°	333	311	267	233	220	152
35°	244	229	196	172	163	153
45°	159	150	130	117	113	124
55°	103	94	80	73	70	93
65°	60	54	45	41	42	60
75°	27	24	20	21	22	29
85°	4	4	4	5	6	6
90°	0	0	0	0	0	

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



TEST NUMBER: P581117

CATALOG NUMBER: HCC4W05D010MB-HM40525940-41WWW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	352.5	352.5	352.5	352.5	352.5	352.5	352.5	352.5	352.5
2.5°	359.2	358.0	355.9	353.4	350.5	347.2	344.2	342.7	341.7
5°	366.7	365.0	361.3	355.9	349.7	343.5	338.0	334.7	333.5
7.5°	371.3	368.8	363.3	355.0	345.5	336.4	328.5	323.9	322.7
10°	371.6	368.8	361.7	350.5	338.5	326.4	316.9	310.3	309.1
12.5°	372.1	368.3	359.6	346.3	331.4	316.4	304.9	297.0	294.9
15°	372.1	368.3	357.5	341.7	323.1	306.1	293.3	284.1	281.3
17.5°	368.8	364.6	351.7	333.5	313.1	294.1	279.1	269.6	266.7
20°	360.0	355.5	341.0	321.1	299.1	279.1	264.2	254.2	250.5
22.5°	347.5	342.2	326.9	305.3	283.3	263.0	248.5	238.1	234.7
25°	332.7	327.2	310.6	289.5	266.7	247.7	233.1	223.6	219.8
27.5°	314.4	308.6	292.4	271.3	250.2	231.1	217.8	209.1	205.3
30°	293.6	287.5	272.1	251.7	232.7	214.4	201.6	194.5	190.3
32.5°	269.6	264.2	250.5	232.2	214.4	197.0	186.3	180.0	176.7
35°	243.5	240.6	228.9	213.2	195.8	181.3	171.7	165.9	163.0
37.5°	220.3	217.4	207.4	194.1	178.8	165.5	157.7	152.7	150.2
40°	198.3	195.8	186.3	175.0	161.7	150.2	143.5	139.8	137.3
42.5°	176.7	175.5	167.5	157.2	145.6	135.6	130.2	127.3	125.3
45°	159.2	157.7	150.2	140.2	130.2	121.9	117.4	115.3	113.3
47.5°	143.9	141.9	133.9	125.3	116.1	108.6	104.5	102.5	101.6
50°	129.0	126.9	119.9	111.1	102.0	96.6	93.3	91.3	90.8
52.5°	115.8	113.6	105.8	97.5	90.5	85.8	83.0	80.9	80.0
55°	102.8	100.3	93.8	85.8	80.0	75.9	73.0	70.9	70.1
57.5°	91.3	88.8	83.0	75.5	70.1	66.4	63.9	61.9	60.9
60°	80.0	78.0	72.6	65.5	60.9	57.7	55.2	53.5	52.7
62.5°	69.7	68.0	62.7	56.4	52.7	49.8	47.7	46.1	46.9
65°	60.2	58.5	53.5	48.1	45.2	42.3	40.6	40.6	42.3
67.5°	51.0	49.4	45.2	40.6	38.1	36.1	34.8	36.1	37.3
70°	42.7	41.1	37.3	33.6	31.6	29.9	29.9	31.1	31.9
72.5°	34.8	33.1	30.3	27.4	25.8	24.5	25.8	26.6	27.4
75°	27.4	26.1	23.6	21.6	20.3	19.9	21.1	22.0	22.4
77.5°	20.3	19.5	17.8	16.2	15.3	15.8	17.0	17.4	17.8
80°	14.1	13.7	12.5	11.6	11.6	12.0	12.8	13.3	13.7
82.5°	8.7	8.7	7.8	7.5	7.8	8.7	9.1	9.5	9.5
85°	4.2	4.5	4.2	4.2	4.5	5.4	5.4	5.8	5.8
87.5°	1.2	1.2	1.7	1.7	2.0	2.0	2.0	2.0	2.5
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)