

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: P592544

Luminaire Tested: **HCC4S05D010MW-HM40525850-41RWWH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592544
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S05D010MW-HM40525850-41RWWH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

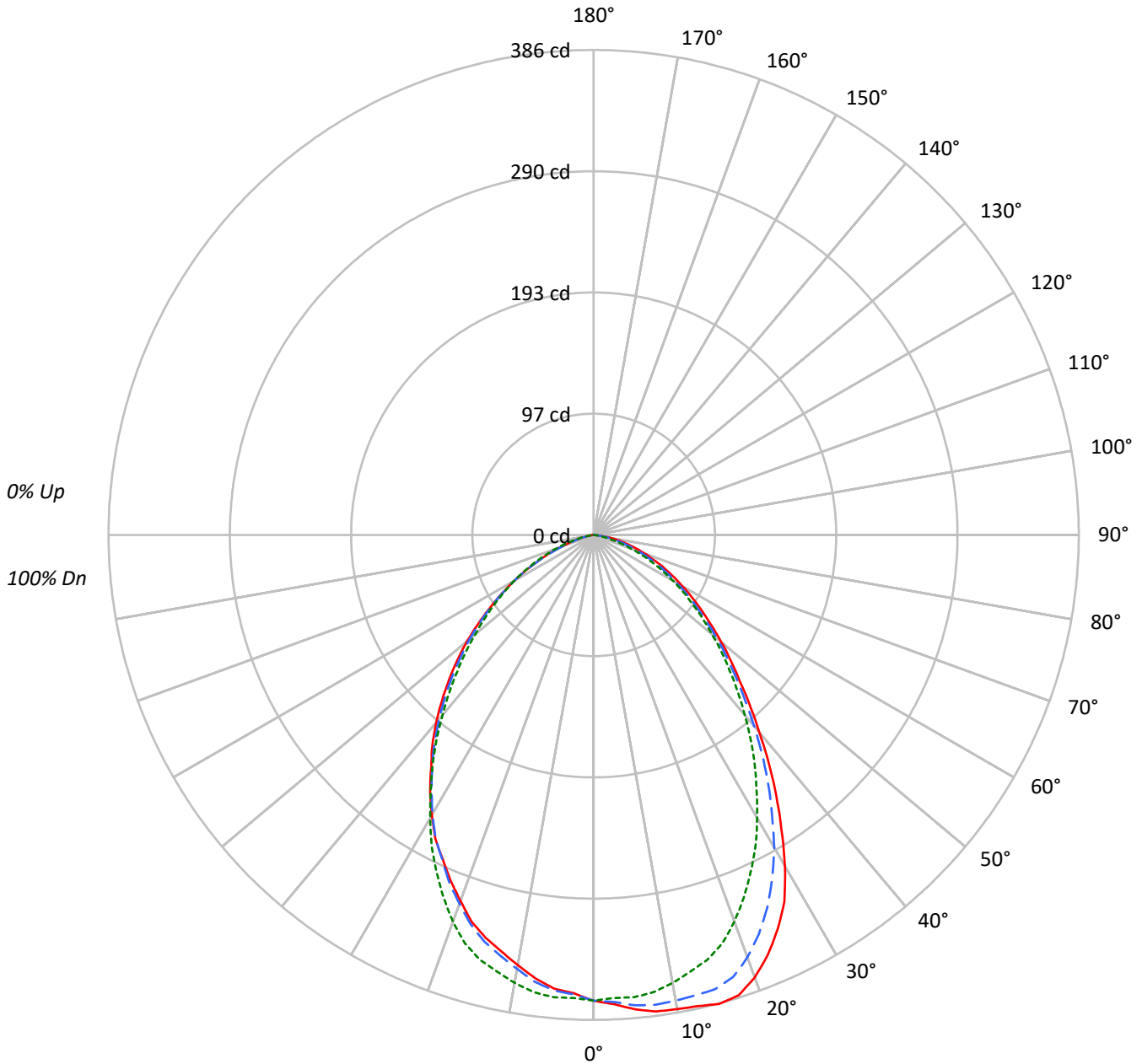
Lumens per Lamp: N/A
Luminaire Lumens: 706.5 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P592544
CATALOG NUMBER: HCC4S05D010MW-HM40525850-41RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P592544

CATALOG NUMBER: HCC4S05D010MW-HM40525850-41RWWH

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	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88				
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				77				
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67				67				
4	88	77	70	64	86	76	69	63	74	67	62	71	66	62	69	65	61	59				59				
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52				52				
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47				47				
7	71	58	51	45	69	58	50	45	56	49	45	55	49	44	54	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	41	37	47	41	37	46	41	37	35				35				
10	58	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°	45724	45724	45724
5°	46927	45726	44871
10°	47983	45340	43549
15°	49342	44681	42395
20°	49197	42975	40678
25°	47130	40244	38720
30°	43355	37045	36661
35°	38126	33639	33910
40°	32992	30094	31366
45°	28660	26741	28346
50°	25445	23583	25176
55°	22580	20687	21569
60°	20105	17959	17959
65°	17891	14914	13980
70°	15435	11288	9954
75°	12915	7482	6148
80°	9802	3623	3339
85°	5095	1274	1274



TEST NUMBER: P592544
 CATALOG NUMBER: HCC4S05D010MW-HM40525850-41RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.1	5.0
10°-20°	99.5	14.1
20°-30°	140.4	19.9
30°-40°	145.0	20.5
40°-50°	122.9	17.4
50°-60°	89.4	12.7
60°-70°	52.3	7.4
70°-80°	19.4	2.7
80°-90°	2.6	0.4
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°	275.0	38.9
0°-40°	420.0	59.4
0°-60°	632.3	89.5
0°-90°	706.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	706.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	371	371	371	371	371	
5°	379	376	369	364	362	36
15°	386	374	350	335	332	109
25°	346	327	296	285	284	158
35°	253	242	223	224	225	158
45°	164	160	153	159	162	128
55°	105	100	96	99	100	94
65°	61	56	51	48	48	61
75°	27	23	16	12	13	29
85°	4	2	1	1	1	5
90°	0	0	0	0	0	

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



TEST NUMBER: P592544

CATALOG NUMBER: HCC4S05D010MW-HM40525850-41RWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	370.7	370.7	370.7	370.7	370.7	370.7	370.7	370.7	370.7
2.5°	373.9	373.0	372.1	370.7	368.9	367.5	366.0	365.1	365.1
5°	379.0	377.6	375.8	372.5	369.3	366.5	363.8	362.4	362.4
7.5°	382.6	380.8	377.2	372.5	366.9	362.9	358.7	356.8	355.9
10°	383.1	381.2	376.3	369.3	362.0	355.5	350.8	348.1	347.7
12.5°	384.1	381.7	375.2	365.6	355.9	348.1	343.1	340.3	339.4
15°	386.4	383.1	374.3	362.0	349.9	340.7	335.3	332.9	332.0
17.5°	384.1	379.4	368.9	354.1	340.7	330.6	325.1	322.8	322.8
20°	374.8	370.2	357.8	341.6	327.4	317.7	312.2	310.9	309.9
22.5°	362.0	356.8	343.6	326.4	312.2	303.5	299.8	297.9	297.5
25°	346.3	341.2	327.0	309.4	295.7	288.3	285.0	285.0	284.5
27.5°	328.8	322.3	307.6	292.4	279.1	273.5	272.2	272.2	272.6
30°	304.4	299.8	287.4	272.6	260.1	256.5	256.5	257.4	257.4
32.5°	278.1	274.9	263.9	250.9	241.3	239.0	239.9	241.8	242.2
35°	253.2	249.6	242.2	230.7	223.4	222.5	223.8	225.2	225.2
37.5°	228.8	225.2	220.1	210.9	205.3	205.9	207.7	209.5	210.9
40°	204.9	202.1	198.5	191.1	186.9	188.8	191.1	193.0	194.8
42.5°	183.8	180.9	178.2	172.6	169.9	172.2	175.0	176.8	178.6
45°	164.3	162.5	159.8	155.2	153.3	155.6	158.9	160.7	162.5
47.5°	147.8	146.9	143.2	139.0	138.1	140.4	143.2	145.5	146.9
50°	132.6	131.2	128.0	123.8	122.9	126.7	128.5	129.8	131.2
52.5°	117.9	116.5	112.8	109.2	109.2	111.9	113.3	113.7	115.1
55°	105.0	103.6	99.9	97.2	96.2	98.5	99.4	99.4	100.3
57.5°	93.1	91.6	88.0	84.7	84.2	85.7	85.7	85.7	86.1
60°	81.5	80.1	76.4	73.7	72.8	73.2	72.8	72.3	72.8
62.5°	70.9	69.6	65.8	62.7	61.7	61.7	60.3	59.8	60.3
65°	61.3	58.9	56.2	53.0	51.1	49.7	47.9	47.9	47.9
67.5°	51.5	49.7	46.5	43.2	41.0	38.7	35.9	36.9	37.3
70°	42.8	41.4	37.8	34.5	31.3	28.6	26.2	27.1	27.6
72.5°	35.0	33.1	30.0	26.2	23.5	19.7	18.4	19.3	19.3
75°	27.1	25.3	22.6	18.8	15.7	12.5	12.5	12.9	12.9
77.5°	20.3	18.4	15.7	12.5	9.6	7.4	7.8	7.8	7.8
80°	13.8	12.5	10.1	7.4	5.1	4.2	4.2	4.2	4.7
82.5°	7.8	6.9	5.6	3.6	2.3	2.3	2.3	2.3	2.3
85°	3.6	2.7	2.3	1.4	0.9	0.9	0.9	0.9	0.9
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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)