

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: P592561

Luminaire Tested: **HCC4S05D010MB-HM40525950-41RWWC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592561
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S05D010MB-HM40525950-41RWWC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

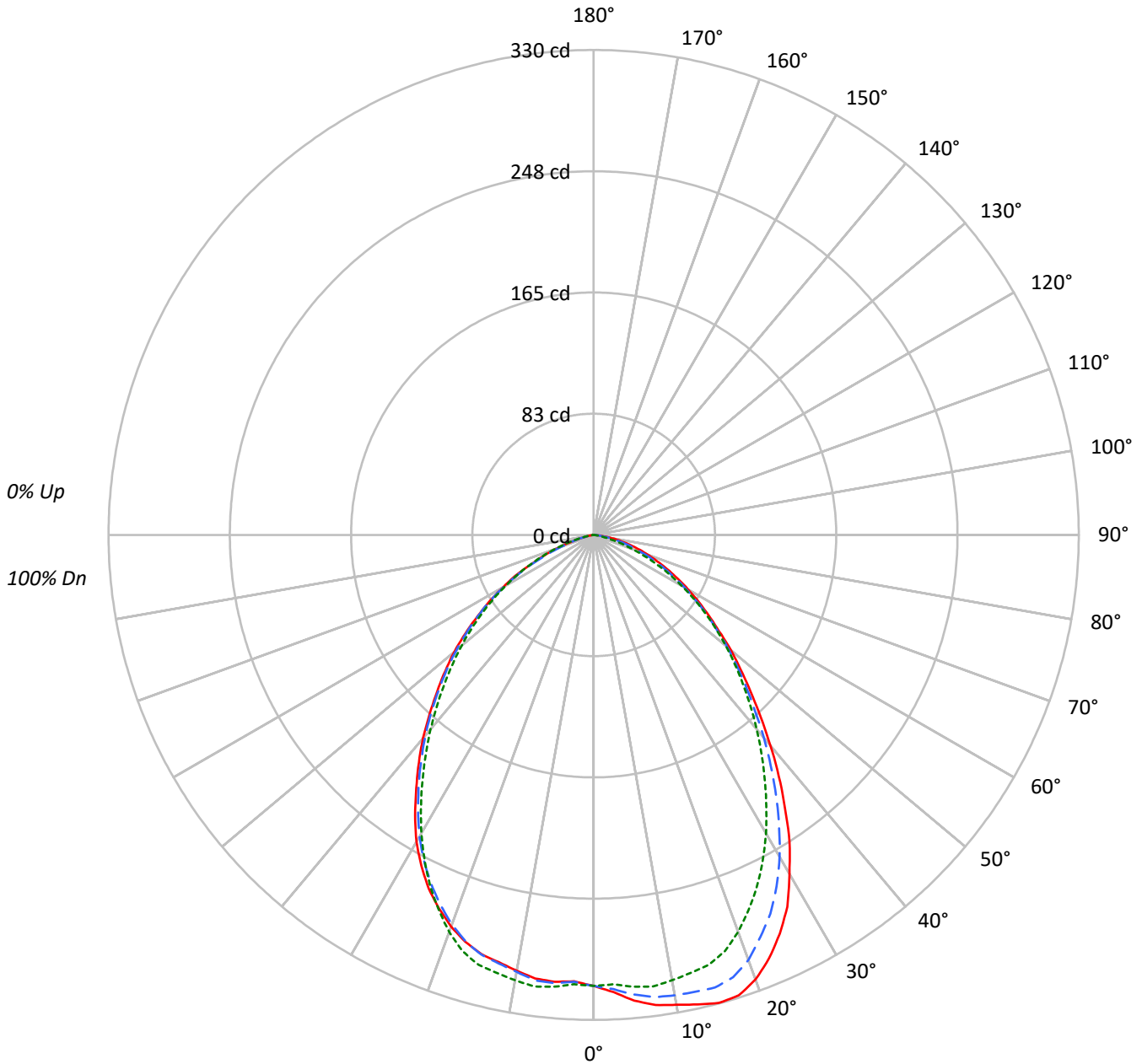
Lumens per Lamp: N/A
Luminaire Lumens: 639.6 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.15 / 1.21
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P592561
CATALOG NUMBER: HCC4S05D010MB-HM40525950-41RWWC

Luminous Intensity Polar Plot





TEST NUMBER: P592561

CATALOG NUMBER: HCC4S05D010MB-HM40525950-41RWWC

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	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	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88					88			
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76					76			
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67					67			
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58					58			
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52					52			
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46					46			
7	70	58	50	44	69	57	49	44	56	49	44	54	48	44	53	47	43	41					41			
8	66	53	45	40	64	53	45	40	51	44	40	50	44	39	49	43	39	37					37			
9	62	49	42	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34					34			
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31					31			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	37855	37855	37855
5°	39386	38210	37789
10°	40668	38539	37712
15°	42102	38667	37709
20°	42253	37725	37226
25°	40747	35834	36134
30°	37928	33385	34325
35°	34166	30537	31666
40°	30110	27775	29063
45°	26340	25032	26253
50°	23334	22528	23718
55°	20494	19892	20687
60°	18304	16997	17490
65°	16111	13805	13542
70°	14029	10134	9304
75°	11676	6100	4909
80°	8879	2344	1421
85°	4246	708	708



TEST NUMBER: P592561
 CATALOG NUMBER: HCC4S05D010MB-HM40525950-41RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.6	4.6
10°-20°	86.4	13.5
20°-30°	125.1	19.6
30°-40°	132.0	20.6
40°-50°	114.2	17.9
50°-60°	84.6	13.2
60°-70°	48.8	7.6
70°-80°	17.0	2.7
80°-90°	1.8	0.3
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°	241.1	37.7
0°-40°	373.1	58.3
0°-60°	571.9	89.4
0°-90°	639.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	639.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	307	307	307	307	307	
5°	318	314	309	306	305	31
15°	330	319	303	296	295	93
25°	299	284	263	262	266	137
35°	227	216	203	207	210	142
45°	151	147	144	149	150	117
55°	95	93	92	96	96	86
65°	55	52	47	45	46	55
75°	24	21	13	10	10	26
85°	3	2	0	0	0	5
90°	0	0	0	0	0	



TEST NUMBER: P592561

CATALOG NUMBER: HCC4S05D010MB-HM40525950-41RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	306.9	306.9	306.9	306.9	306.9	306.9	306.9	306.9	306.9
2.5°	311.4	310.6	309.4	307.7	306.1	304.9	304.4	304.0	304.0
5°	318.1	316.4	313.9	310.6	308.6	307.4	306.1	305.2	305.2
7.5°	322.7	321.0	317.2	312.7	309.9	307.4	305.7	304.4	304.4
10°	324.7	322.7	318.1	312.4	307.7	304.4	301.9	301.1	301.1
12.5°	327.2	324.7	318.5	311.1	305.2	301.1	298.6	297.8	297.8
15°	329.7	326.8	318.9	310.2	302.8	297.8	295.7	295.3	295.3
17.5°	328.5	324.7	315.6	305.2	296.9	292.0	289.9	289.9	290.3
20°	321.9	318.1	307.7	296.1	287.4	283.6	282.0	282.8	283.6
22.5°	311.9	307.4	296.1	284.9	275.8	272.5	272.5	273.8	275.0
25°	299.4	295.3	284.5	272.1	263.3	260.8	261.7	263.8	265.5
27.5°	285.3	280.8	269.6	258.0	249.2	248.0	250.0	253.0	253.8
30°	266.3	262.5	253.0	241.8	234.4	233.9	236.9	238.9	241.0
32.5°	248.0	243.9	234.7	223.9	218.6	218.9	222.3	224.8	226.1
35°	226.9	223.1	216.4	207.8	202.8	203.6	207.4	209.9	210.3
37.5°	206.9	204.4	197.8	191.2	187.5	189.1	192.5	195.3	195.3
40°	187.0	185.0	180.0	174.6	172.5	174.6	178.0	180.5	180.5
42.5°	168.0	166.7	162.5	158.9	157.7	160.5	163.4	165.5	165.0
45°	151.0	149.7	146.9	143.9	143.5	146.4	148.9	150.2	150.5
47.5°	135.6	134.8	132.3	130.2	130.2	133.1	135.2	136.4	136.9
50°	121.6	120.7	118.6	116.9	117.4	120.3	121.9	123.1	123.6
52.5°	107.4	107.0	105.3	103.3	104.5	106.6	108.6	109.5	109.9
55°	95.3	95.3	93.3	91.7	92.5	94.5	95.8	96.2	96.2
57.5°	84.6	84.2	81.7	80.0	80.5	82.5	83.3	83.8	83.8
60°	74.2	73.8	71.4	68.9	68.9	70.1	70.5	70.9	70.9
62.5°	64.2	63.9	60.9	58.9	58.1	57.7	57.7	58.5	60.2
65°	55.2	54.7	51.9	48.6	47.3	46.1	44.8	45.6	46.4
67.5°	46.9	46.1	43.1	40.2	37.3	35.3	33.1	34.4	36.1
70°	38.9	38.1	34.8	31.6	28.1	24.9	23.3	24.9	25.8
72.5°	31.6	30.6	27.4	24.1	19.9	16.6	16.2	16.6	17.0
75°	24.5	24.1	20.8	17.0	12.8	10.3	10.3	10.3	10.3
77.5°	18.3	17.4	14.1	10.8	7.5	5.8	5.4	5.4	5.4
80°	12.5	11.6	8.7	6.2	3.3	2.5	2.5	2.0	2.0
82.5°	7.0	6.6	4.5	2.5	1.2	0.8	0.8	0.8	0.8
85°	3.0	2.5	1.7	0.8	0.5	0.5	0.5	0.5	0.5
87.5°	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
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)