

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: P581096

Luminaire Tested: **HCC4S05D010MB-HM40525935-41RWWC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581096
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-HM40525935-41RWWC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

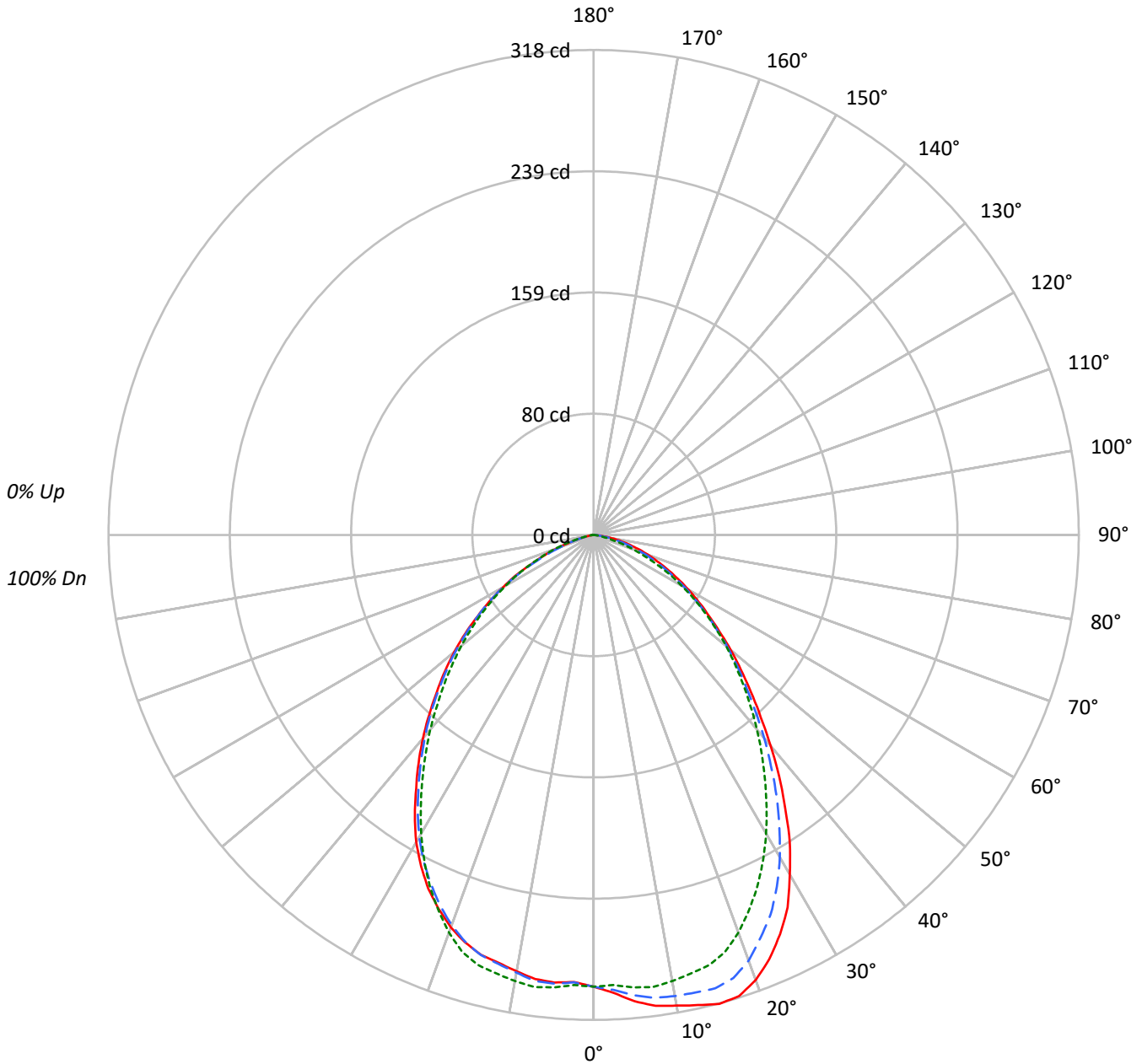
Lumens per Lamp: N/A
Luminaire Lumens: 617.2 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.15 / 1.21
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P581096
CATALOG NUMBER: HCC4S05D010MB-HM40525935-41RWWC

Luminous Intensity Polar Plot





TEST NUMBER: P581096

CATALOG NUMBER: HCC4S05D010MB-HM40525935-41RWWC

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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								
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88								
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76								
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67								
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58								
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52								
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46								
7	70	58	50	44	69	57	49	44	56	49	44	54	48	44	53	47	43	41								
8	66	53	45	40	64	53	45	40	51	44	40	50	44	39	49	43	39	37								
9	62	49	42	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34								
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	36535	36535	36535
5°	38012	36873	36476
10°	39253	37199	36397
15°	40646	37300	36394
20°	40770	36412	35939
25°	39332	34582	34868
30°	36604	32203	33129
35°	32961	29468	30552
40°	29063	26809	28033
45°	25415	24160	25346
50°	22490	21741	22893
55°	19784	19182	19956
60°	17663	16380	16874
65°	15527	13309	13075
70°	13560	9809	8980
75°	11247	5909	4766
80°	8524	2273	1421
85°	3963	708	708



TEST NUMBER: P581096

CATALOG NUMBER: HCC4S05D010MB-HM40525935-41RWWC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.6	4.6
10°-20°	83.4	13.5
20°-30°	120.7	19.6
30°-40°	127.4	20.6
40°-50°	110.2	17.9
50°-60°	81.7	13.2
60°-70°	47.1	7.6
70°-80°	16.4	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°	232.7	37.7
0°-40°	360.1	58.3
0°-60°	552.0	89.4
0°-90°	617.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	617.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	296	296	296	296	296	
5°	307	303	298	295	295	29
15°	318	308	292	285	285	90
25°	289	275	254	252	256	132
35°	219	209	196	200	203	137
45°	146	142	138	144	145	113
55°	92	90	89	92	93	83
65°	53	50	46	43	45	53
75°	24	20	12	10	10	25
85°	3	2	0	0	0	4
90°	0	0	0	0	0	



TEST NUMBER: P581096

CATALOG NUMBER: HCC4S05D010MB-HM40525935-41RWWC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2
2.5°	300.5	299.8	298.6	297.0	295.4	294.2	293.7	293.4	293.4
5°	307.0	305.4	303.0	299.8	297.8	296.6	295.4	294.6	294.6
7.5°	311.4	309.9	306.2	301.8	299.0	296.6	295.0	293.7	293.7
10°	313.4	311.4	307.0	301.3	297.0	293.7	291.4	290.6	290.6
12.5°	315.8	313.4	307.4	300.2	294.6	290.6	288.2	287.4	287.4
15°	318.3	315.4	307.8	299.4	292.1	287.4	285.3	285.0	285.0
17.5°	317.0	313.4	304.6	294.6	286.6	281.8	279.8	279.8	280.2
20°	310.6	307.0	297.0	285.8	277.4	273.8	272.2	273.0	273.8
22.5°	301.0	296.6	285.8	275.0	266.2	263.0	263.0	264.2	265.4
25°	289.0	285.0	274.6	262.5	254.1	251.7	252.5	254.6	256.2
27.5°	275.4	270.9	260.1	249.0	240.5	239.4	241.3	244.1	244.9
30°	257.0	253.3	244.1	233.4	226.1	225.8	228.6	230.5	232.6
32.5°	239.4	235.4	226.5	216.1	210.9	211.3	214.5	216.9	218.1
35°	218.9	215.3	209.0	200.6	195.7	196.6	200.1	202.5	202.9
37.5°	199.8	197.4	190.9	184.6	180.9	182.5	185.7	188.5	188.5
40°	180.5	178.5	173.8	168.5	166.5	168.5	171.7	174.1	174.1
42.5°	162.1	160.9	156.9	153.3	152.1	154.9	157.7	159.7	159.4
45°	145.7	144.5	141.6	138.9	138.5	141.3	143.7	144.9	145.3
47.5°	130.9	130.1	127.7	125.6	125.6	128.5	130.5	131.7	132.1
50°	117.2	116.5	114.5	112.8	113.3	116.1	117.7	118.8	119.3
52.5°	103.6	103.3	101.7	99.7	100.9	102.8	104.9	105.7	106.1
55°	92.0	92.0	90.0	88.4	89.2	91.3	92.5	92.8	92.8
57.5°	81.6	81.3	78.9	77.3	77.6	79.7	80.5	80.8	80.8
60°	71.6	71.3	68.9	66.4	66.4	67.6	68.1	68.4	68.4
62.5°	62.1	61.6	58.8	56.9	56.1	55.6	55.6	56.4	58.0
65°	53.2	52.9	50.1	46.9	45.6	44.4	43.2	44.0	44.8
67.5°	45.2	44.4	41.7	38.8	36.0	34.0	32.0	33.3	34.8
70°	37.6	36.8	33.6	30.4	27.2	24.1	22.4	24.1	24.9
72.5°	30.4	29.6	26.4	23.3	19.2	16.0	15.7	16.0	16.5
75°	23.6	23.3	20.0	16.5	12.4	10.0	10.0	10.0	10.0
77.5°	17.6	16.8	13.6	10.4	7.2	5.6	5.2	5.2	5.2
80°	12.0	11.2	8.4	6.0	3.2	2.4	2.4	2.0	2.0
82.5°	6.8	6.4	4.4	2.4	1.2	0.8	0.8	0.8	0.8
85°	2.8	2.4	1.6	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)