

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: P581060

Luminaire Tested: **HCC4W05D010MB-HM40525927-41RWWC**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581060  
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: HCC4W05D010MB-HM40525927-41RWWC  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

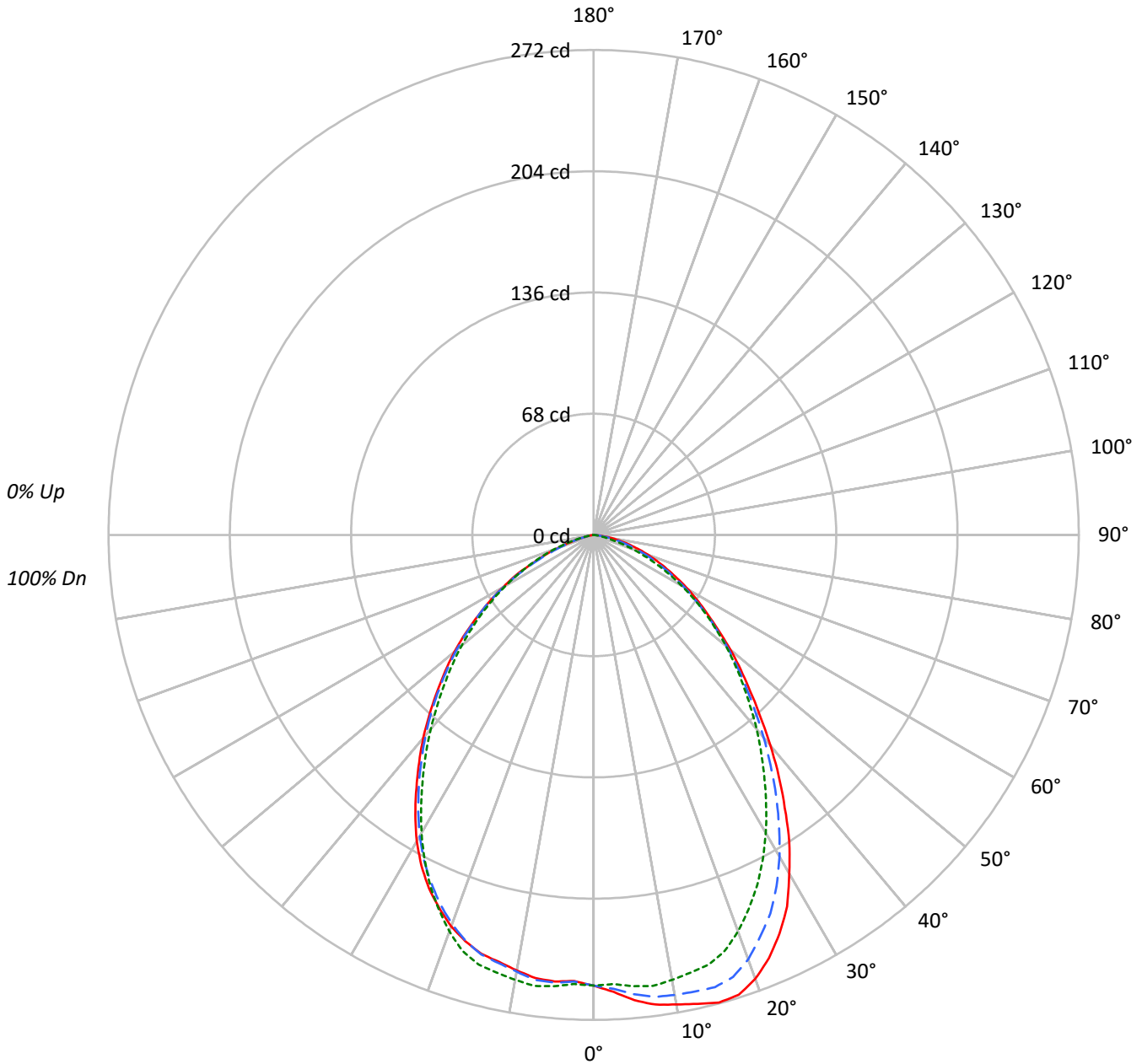
Lumens per Lamp: N/A  
Luminaire Lumens: 526.7 lumens  
Efficiency: N/A  
Efficacy: 87.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.15 / 1.21  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (Ain): 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: P581060  
CATALOG NUMBER: HCC4W05D010MB-HM40525927-41RWWC

### Luminous Intensity Polar Plot





TEST NUMBER: P581060

CATALOG NUMBER: HCC4W05D010MB-HM40525927-41RWWC

**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	62	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°	31182	31182	31182
5°	32440	31462	31128
10°	33491	31738	31062
15°	34670	31848	31056
20°	34784	31057	30663
25°	33561	29519	29751
30°	31234	27488	28258
35°	28128	25146	26080
40°	24797	22880	23927
45°	21683	20618	21613
50°	19208	18556	19535
55°	16881	16387	17032
60°	15098	14012	14431
65°	13250	11353	11149
70°	11576	8403	7646
75°	9627	5052	4051
80°	7245	1918	1208
85°	3397	425	425



TEST NUMBER: P581060  
 CATALOG NUMBER: HCC4W05D010MB-HM40525927-41RWWC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.4	4.6
10°-20°	71.1	13.5
20°-30°	103.0	19.6
30°-40°	108.7	20.6
40°-50°	94.1	17.9
50°-60°	69.7	13.2
60°-70°	40.2	7.6
70°-80°	14.0	2.7
80°-90°	1.5	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°	198.5	37.7
0°-40°	307.2	58.3
0°-60°	471.0	89.4
0°-90°	526.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	526.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	253	253	253	253	253	
5°	262	259	254	252	251	25
15°	272	263	249	244	243	76
25°	247	234	217	216	219	113
35°	187	178	167	171	173	117
45°	124	121	118	123	124	97
55°	78	77	76	79	79	71
65°	45	43	39	37	38	45
75°	20	17	11	8	8	22
85°	2	1	0	0	0	4
90°	0	0	0	0	0	

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



TEST NUMBER: P581060

CATALOG NUMBER: HCC4W05D010MB-HM40525927-41RWWC

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	252.8	252.8	252.8	252.8	252.8	252.8	252.8	252.8	252.8
2.5°	256.5	255.8	254.8	253.4	252.1	251.1	250.7	250.4	250.4
5°	262.0	260.6	258.6	255.8	254.1	253.1	252.1	251.4	251.4
7.5°	265.7	264.3	261.3	257.5	255.1	253.1	251.7	250.7	250.7
10°	267.4	265.7	262.0	257.2	253.4	250.7	248.7	248.0	248.0
12.5°	269.4	267.4	262.3	256.2	251.4	248.0	246.0	245.3	245.3
15°	271.5	269.1	262.6	255.5	249.4	245.3	243.6	243.2	243.2
17.5°	270.5	267.4	259.9	251.4	244.6	240.4	238.7	238.7	239.0
20°	265.0	262.0	253.4	243.9	236.6	233.6	232.2	232.9	233.6
22.5°	256.9	253.1	243.9	234.6	227.1	224.4	224.4	225.4	226.4
25°	246.6	243.2	234.3	224.0	216.9	214.9	215.5	217.2	218.6
27.5°	234.9	231.2	222.0	212.5	205.3	204.2	206.0	208.4	209.1
30°	219.3	216.2	208.4	199.1	193.0	192.6	195.0	196.7	198.4
32.5°	204.2	200.8	193.3	184.4	180.0	180.4	183.1	185.1	186.1
35°	186.8	183.8	178.3	171.2	167.0	167.6	170.8	172.9	173.2
37.5°	170.5	168.4	162.9	157.4	154.4	155.7	158.4	160.8	160.8
40°	154.0	152.3	148.2	143.8	142.1	143.8	146.5	148.6	148.6
42.5°	138.4	137.3	133.9	130.9	129.7	132.2	134.6	136.3	136.0
45°	124.3	123.3	120.9	118.5	118.2	120.5	122.6	123.6	123.9
47.5°	111.7	111.0	109.0	107.3	107.3	109.6	111.3	112.4	112.7
50°	100.1	99.4	97.7	96.4	96.7	99.1	100.4	101.5	101.8
52.5°	88.4	88.1	86.7	85.0	86.0	87.7	89.4	90.1	90.5
55°	78.5	78.5	76.8	75.5	76.2	77.9	78.9	79.2	79.2
57.5°	69.7	69.3	67.3	65.9	66.3	68.0	68.7	69.0	69.0
60°	61.2	60.8	58.8	56.8	56.8	57.8	58.1	58.5	58.5
62.5°	52.9	52.6	50.2	48.5	47.8	47.4	47.4	48.1	49.5
65°	45.4	45.1	42.7	40.0	38.9	37.9	36.9	37.6	38.2
67.5°	38.6	37.9	35.5	33.1	30.8	29.1	27.4	28.4	29.7
70°	32.1	31.4	28.7	26.0	23.3	20.5	19.2	20.5	21.2
72.5°	26.0	25.3	22.6	19.9	16.3	13.6	13.3	13.6	14.0
75°	20.2	19.9	17.0	14.0	10.6	8.5	8.5	8.5	8.5
77.5°	15.0	14.3	11.6	8.9	6.1	4.8	4.4	4.4	4.4
80°	10.2	9.5	7.2	5.1	2.7	2.0	2.0	1.7	1.7
82.5°	5.8	5.4	3.7	2.0	1.0	0.7	0.7	0.7	0.7
85°	2.4	2.0	1.4	0.7	0.3	0.3	0.3	0.3	0.3
87.5°	0.3	0.3	0.3	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)