

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: P581478

Luminaire Tested: **HCC4S07D010MW-HM40525840-41WWWB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581478  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S07D010MW-HM40525840-41WWWB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

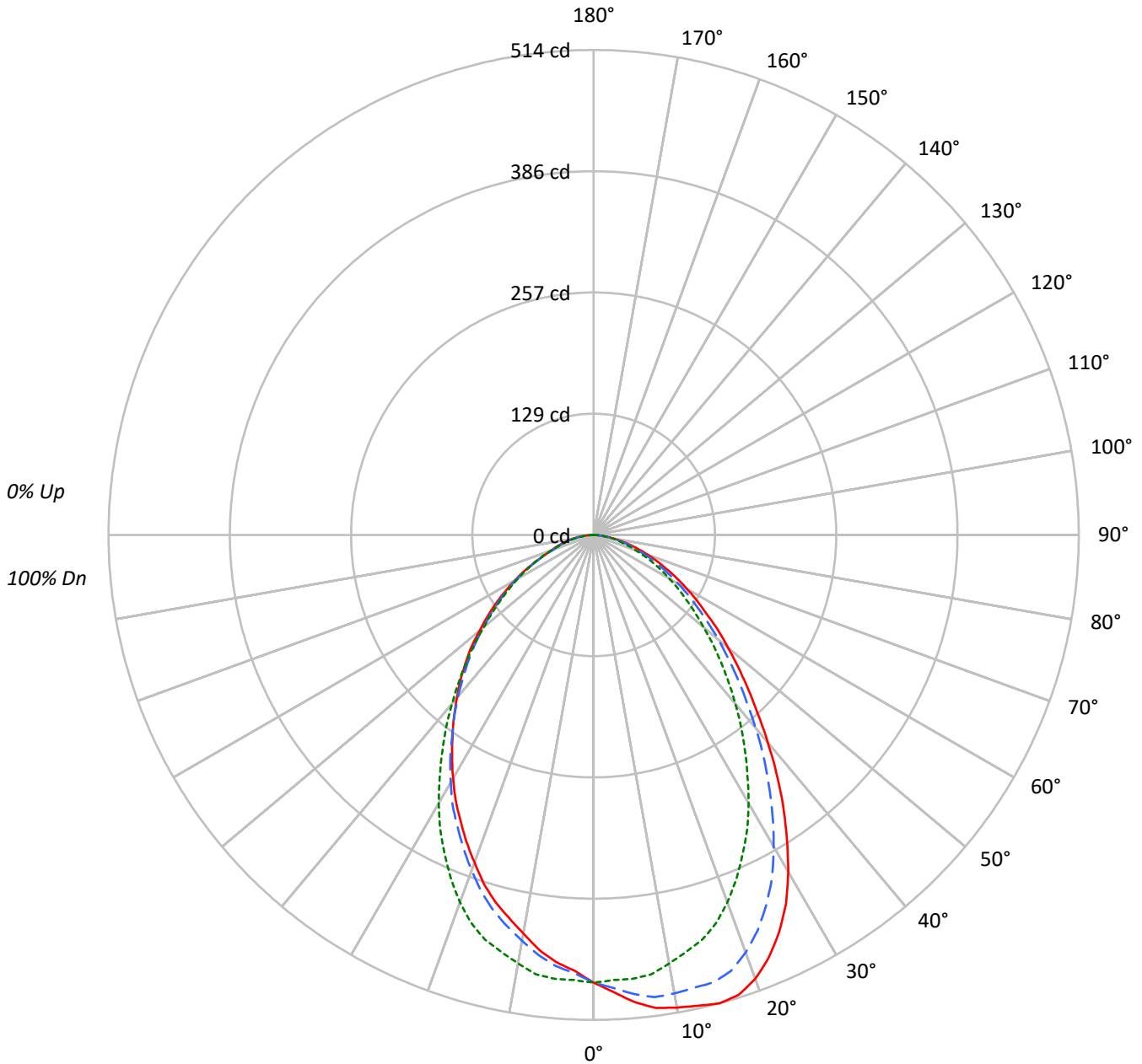
Lumens per Lamp: N/A  
Luminaire Lumens: 920.3 lumens  
Efficiency: N/A  
Efficacy: 115.0 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.15  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P581478  
CATALOG NUMBER: HCC4S07D010MW-HM40525840-41WWWB

### Luminous Intensity Polar Plot





TEST NUMBER: P581478

CATALOG NUMBER: HCC4S07D010MW-HM40525840-41WWWB

**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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87								
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75								
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66								
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	60	58								
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51								
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46								
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41								
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37								
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34								
10	58	45	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31								

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	58528	58528	58528
5°	61549	58466	56275
10°	63714	57752	53719
15°	65649	56723	51423
20°	65723	54369	48462
25°	63271	50832	45443
30°	58737	46759	42429
35°	52657	42101	39255
40°	46196	37565	36293
45°	40382	33265	33474
50°	35653	29110	30165
55°	31440	25827	27117
60°	28098	22844	23756
65°	24867	20080	20080
70°	21747	17166	17166
75°	18586	14535	16251
80°	14704	12999	14704
85°	9482	11322	13869



TEST NUMBER: P581478  
 CATALOG NUMBER: HCC4S07D010MW-HM40525840-41WWWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.0	4.9
10°-20°	126.6	13.8
20°-30°	177.4	19.3
30°-40°	182.8	19.9
40°-50°	155.6	16.9
50°-60°	115.3	12.5
60°-70°	72.4	7.9
70°-80°	36.0	3.9
80°-90°	9.4	1.0
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°	349.0	37.9
0°-40°	531.7	57.8
0°-60°	802.6	87.2
0°-90°	920.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	920.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	474	474	474	474	474	
5°	497	488	472	459	454	48
15°	514	491	444	412	403	145
25°	465	433	374	341	334	213
35°	350	324	280	261	261	218
45°	232	216	191	187	192	180
55°	146	135	120	122	126	132
65°	85	77	69	68	69	85
75°	39	35	30	33	34	42
85°	7	7	8	9	10	9
90°	0	0	0	0	0	

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



TEST NUMBER: P581478

CATALOG NUMBER: HCC4S07D010MW-HM40525840-41WWWB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	474.5	474.5	474.5	474.5	474.5	474.5	474.5	474.5	474.5
2.5°	484.9	483.1	480.7	476.4	472.2	468.5	464.9	463.1	462.4
5°	497.1	493.4	488.5	480.7	472.2	464.9	458.7	455.7	454.5
7.5°	505.6	502.0	494.1	481.8	469.7	458.7	448.9	444.7	443.5
10°	508.7	504.5	493.4	477.0	461.1	447.8	436.8	431.3	428.9
12.5°	511.1	505.6	491.6	472.2	452.6	436.2	424.6	417.3	415.5
15°	514.1	508.1	491.0	467.3	444.2	424.6	411.8	405.1	402.7
17.5°	511.1	504.5	484.3	457.5	431.3	410.0	396.0	389.9	387.5
20°	500.7	493.4	470.9	442.2	414.2	392.4	378.3	372.2	369.2
22.5°	484.9	477.0	453.8	423.4	394.8	373.5	360.1	353.9	352.1
25°	464.9	456.9	432.6	401.5	373.5	352.8	341.2	335.7	333.9
27.5°	441.1	433.1	409.3	379.0	352.1	332.6	323.5	318.0	316.8
30°	412.4	404.6	381.3	353.3	328.3	310.1	302.8	298.5	297.9
32.5°	380.8	374.1	352.8	327.2	303.4	288.1	282.7	279.6	279.0
35°	349.7	342.4	323.5	300.3	279.6	266.2	261.4	260.7	260.7
37.5°	318.0	310.7	295.4	274.1	256.5	244.3	242.5	243.1	243.1
40°	286.9	280.3	266.9	249.1	233.3	224.2	223.6	224.8	225.4
42.5°	257.6	252.2	240.0	224.8	211.4	204.0	204.7	207.1	208.9
45°	231.5	226.6	215.7	202.2	190.7	185.2	187.0	190.0	191.9
47.5°	207.7	203.5	193.1	180.9	171.2	167.5	170.0	173.7	176.0
50°	185.8	182.2	172.4	159.7	151.7	149.3	152.3	155.9	157.2
52.5°	166.3	162.6	152.3	141.3	135.2	134.1	137.0	140.1	141.9
55°	146.2	143.2	134.6	124.8	120.1	119.4	122.4	124.8	126.1
57.5°	129.7	126.7	118.8	110.3	105.9	105.4	108.5	110.3	110.8
60°	113.9	110.8	103.6	95.6	92.6	92.6	94.5	95.6	96.3
62.5°	99.3	96.3	89.6	82.8	80.5	80.5	80.5	81.0	82.8
65°	85.2	82.8	76.8	70.7	68.8	67.6	67.6	67.6	68.8
67.5°	72.5	70.1	65.2	59.7	57.9	56.1	55.4	56.7	56.7
70°	60.3	58.5	53.6	49.4	47.6	45.6	45.1	47.6	47.6
72.5°	49.4	47.6	44.5	40.2	38.4	37.8	39.0	40.2	40.9
75°	39.0	37.2	34.7	32.3	30.5	31.1	32.9	33.5	34.1
77.5°	29.2	28.7	26.2	24.4	24.4	24.9	26.2	27.4	28.0
80°	20.7	20.1	18.9	17.6	18.3	19.5	20.1	21.3	20.7
82.5°	12.7	12.7	12.2	12.2	12.7	14.0	14.6	15.2	15.8
85°	6.7	6.7	6.7	7.3	8.0	8.5	9.1	9.8	9.8
87.5°	1.8	2.4	2.4	3.1	3.6	3.6	4.2	4.2	4.2
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)