

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: P581441

Luminaire Tested: **HCC4S07D010MW-HM40525830-41WWW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581441
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S07D010MW-HM40525830-41WWW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

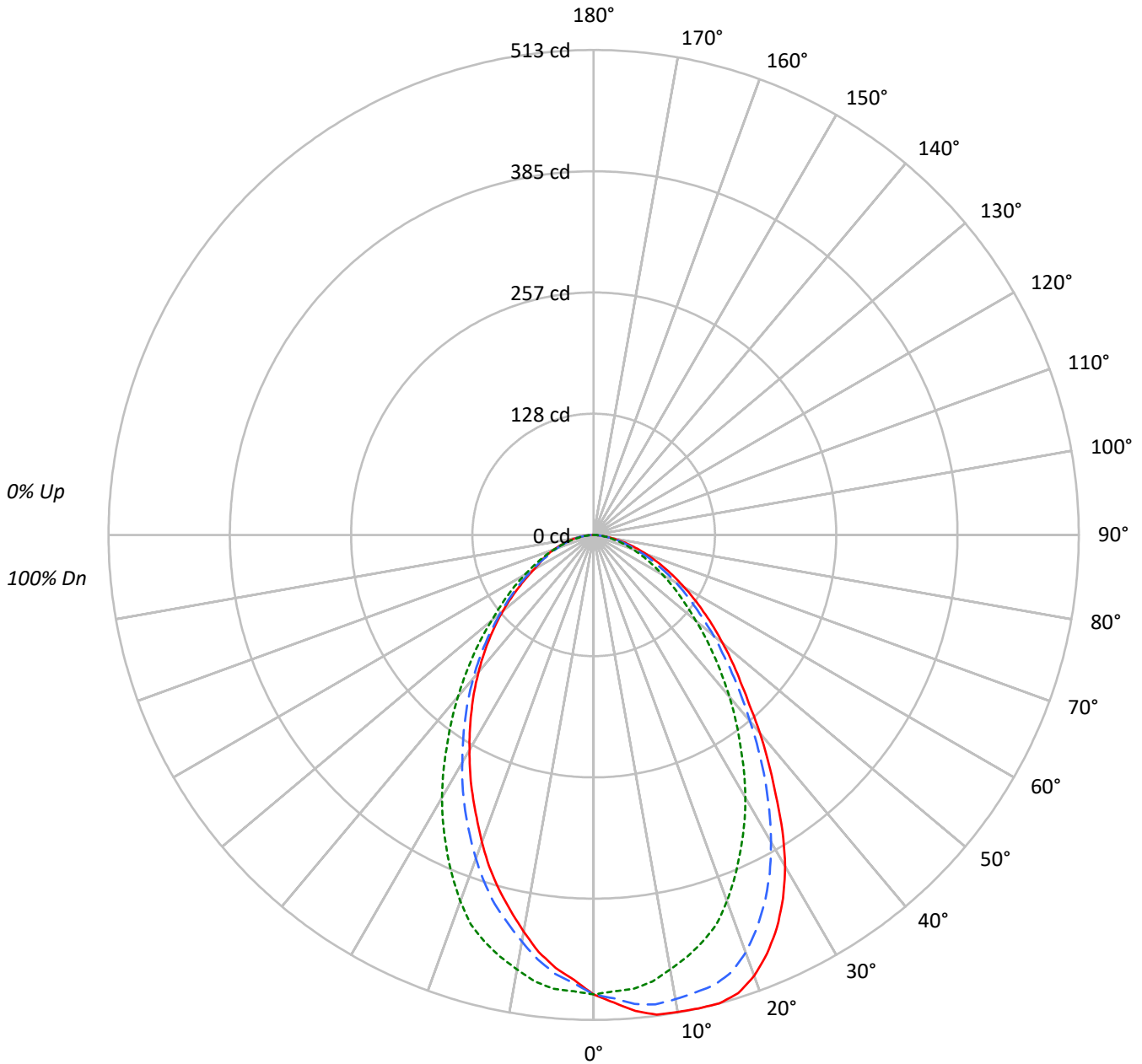
Lumens per Lamp: N/A
Luminaire Lumens: 868.0 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.03 / 1.1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 8
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: P581441
CATALOG NUMBER: HCC4S07D010MW-HM40525830-41WWW

Luminous Intensity Polar Plot



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



TEST NUMBER: P581441

CATALOG NUMBER: HCC4S07D010MW-HM40525830-41WWW

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	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87					87			
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76					76			
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66					66			
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	69	61	56	67	60	55	65	59	54	63	58	54	52					52			
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	47					47			
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	53	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	42	37	47	41	37	46	41	37	35					35			
10	59	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°	59946	59946	59946
5°	62589	59692	56931
10°	64177	58453	53368
15°	65508	56889	49508
20°	65158	54119	45338
25°	62414	50043	41237
30°	57669	45691	37387
35°	50549	40641	33850
40°	44006	35907	30464
45°	38306	31329	27230
50°	34138	26999	24044
55°	30494	23741	20773
60°	27235	20747	17910
65°	24224	18212	17045
70°	21242	15688	15868
75°	18014	13344	14678
80°	13851	11365	13425
85°	8067	8916	11322



TEST NUMBER: P581441
 CATALOG NUMBER: HCC4S07D010MW-HM40525830-41WWW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.6	5.2
10°-20°	125.7	14.5
20°-30°	171.7	19.8
30°-40°	172.4	19.9
40°-50°	142.6	16.4
50°-60°	103.4	11.9
60°-70°	65.5	7.5
70°-80°	33.1	3.8
80°-90°	8.1	0.9
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°	343.0	39.5
0°-40°	515.4	59.4
0°-60°	761.4	87.7
0°-90°	868.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	868.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	486	486	486	486	486	
5°	506	498	482	466	460	48
15°	513	493	446	404	388	144
25°	459	428	368	321	303	210
35°	336	316	270	237	225	210
45°	220	207	180	162	156	171
55°	142	129	110	101	97	128
65°	83	74	62	56	58	83
75°	38	32	28	29	31	40
85°	6	6	6	7	8	8
90°	0	0	0	0	0	

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



TEST NUMBER: P581441

CATALOG NUMBER: HCC4S07D010MW-HM40525830-41WWW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0
2.5°	495.3	493.6	490.7	487.2	483.2	478.6	474.7	472.4	471.2
5°	505.5	503.2	498.1	490.7	482.1	473.5	466.1	461.5	459.8
7.5°	511.9	508.3	500.9	489.6	476.4	463.7	452.9	446.7	445.0
10°	512.4	508.3	498.7	483.2	466.7	450.1	436.9	427.8	426.1
12.5°	513.0	507.8	495.8	477.5	456.9	436.3	420.4	409.5	406.6
15°	513.0	507.8	493.0	471.2	445.5	422.1	404.3	391.7	387.7
17.5°	508.3	502.7	484.9	459.8	431.8	405.5	384.9	371.7	367.7
20°	496.4	490.1	470.1	442.7	412.3	384.9	364.3	350.5	345.4
22.5°	479.2	471.8	450.6	420.9	390.6	362.6	342.5	328.2	323.6
25°	458.6	451.2	428.3	399.2	367.7	341.4	321.4	308.3	303.0
27.5°	433.5	425.5	403.2	373.9	344.8	318.5	300.2	288.3	283.0
30°	404.9	396.3	375.2	347.1	320.8	295.7	277.9	268.2	262.5
32.5°	371.7	364.3	345.4	320.2	295.7	271.6	256.7	248.2	243.6
35°	335.7	331.7	315.7	293.9	269.9	249.9	236.7	228.7	224.8
37.5°	303.6	299.6	286.0	267.7	246.5	228.2	217.4	210.4	207.0
40°	273.3	269.9	256.7	241.4	223.0	207.0	197.9	192.7	189.2
42.5°	243.6	241.9	231.0	216.8	200.7	187.0	179.6	175.6	172.7
45°	219.6	217.4	207.0	193.3	179.6	168.1	161.8	159.0	156.1
47.5°	198.5	195.6	184.7	172.7	160.1	149.9	144.1	141.2	140.1
50°	177.9	175.0	165.2	153.3	140.7	133.3	128.7	125.9	125.3
52.5°	159.5	156.7	145.8	134.4	124.6	118.4	114.4	111.5	110.4
55°	141.8	138.4	129.3	118.4	110.4	104.7	100.6	97.8	96.6
57.5°	125.9	122.3	114.4	104.1	96.6	91.5	88.1	85.2	84.1
60°	110.4	107.5	100.0	90.4	84.1	79.5	76.0	73.7	72.6
62.5°	96.0	93.8	86.4	77.7	72.6	68.6	65.8	63.5	64.6
65°	83.0	80.7	73.7	66.3	62.4	58.4	56.0	56.0	58.4
67.5°	70.3	68.1	62.4	56.0	52.6	49.7	48.0	49.7	51.4
70°	58.9	56.6	51.4	46.3	43.5	41.2	41.2	42.9	44.0
72.5°	48.0	45.7	41.8	37.8	35.5	33.7	35.5	36.6	37.8
75°	37.8	36.1	32.5	29.7	28.0	27.4	29.1	30.3	30.8
77.5°	28.0	26.9	24.6	22.3	21.2	21.7	23.4	24.0	24.6
80°	19.5	18.9	17.2	16.0	16.0	16.6	17.8	18.3	18.9
82.5°	12.1	12.1	10.8	10.2	10.8	12.1	12.6	13.2	13.2
85°	5.7	6.3	5.7	5.7	6.3	7.4	7.4	8.0	8.0
87.5°	1.7	1.7	2.3	2.3	2.8	2.8	2.8	2.8	3.4
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)