

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: P581421

Luminaire Tested: **HCC4S07D010MW-HM40525827-41RWWH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581421
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S07D010MW-HM40525827-41RWWH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

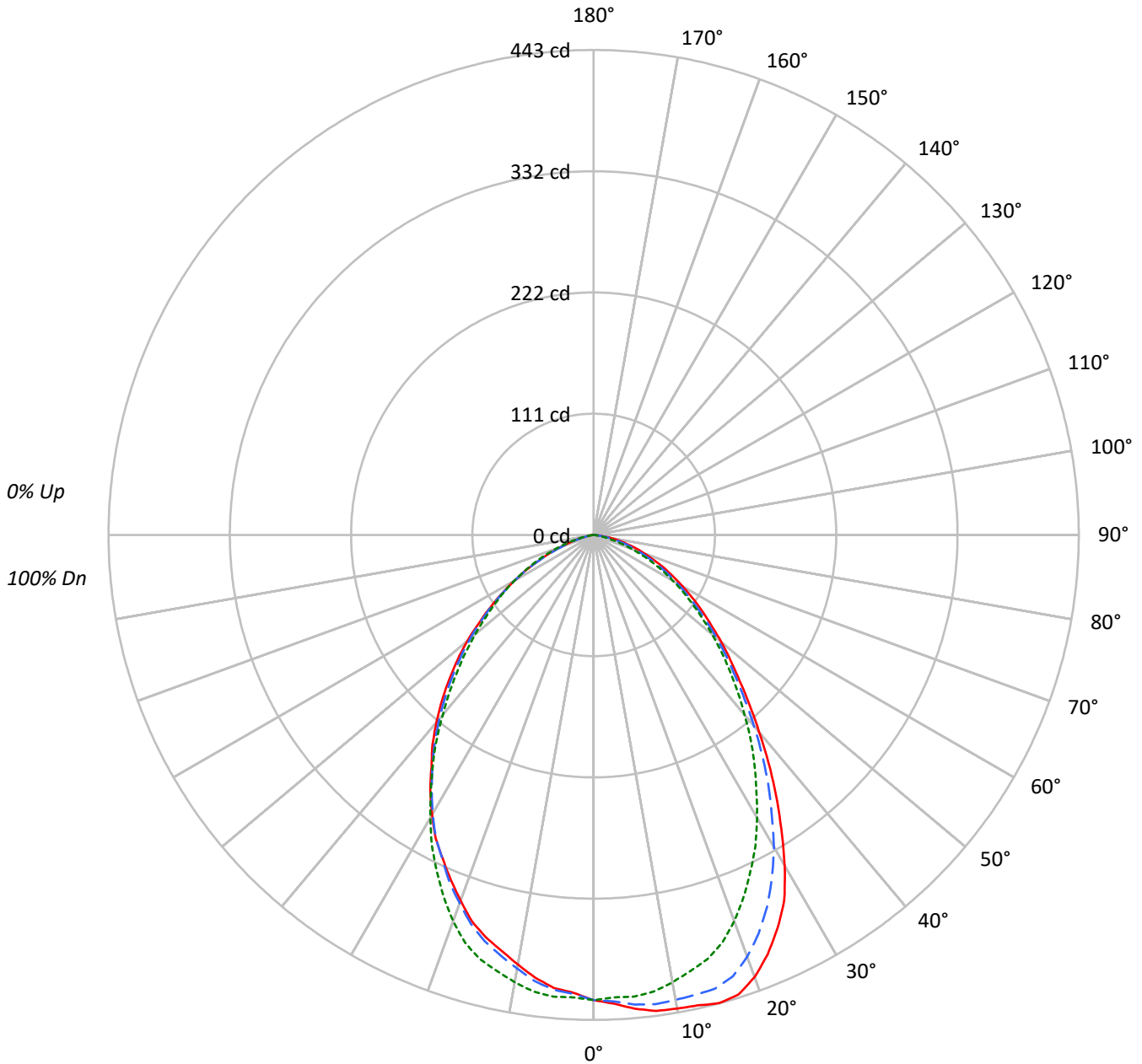
Lumens per Lamp: N/A
Luminaire Lumens: 809.9 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P581421
CATALOG NUMBER: HCC4S07D010MW-HM40525827-41RWWH

Luminous Intensity Polar Plot



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



TEST NUMBER: P581421

CATALOG NUMBER: HCC4S07D010MW-HM40525827-41RWWH

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	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88					88			
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77					77			
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67					67			
4	88	77	70	64	86	76	69	63	74	67	62	71	66	62	69	65	61	59					59			
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52					52			
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47					47			
7	71	58	51	45	69	58	50	45	56	49	45	55	49	44	54	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	41	37	47	41	37	46	41	37	35					35			
10	58	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°	52410	52410	52410
5°	53786	52412	51433
10°	55009	51966	49912
15°	56557	51219	48589
20°	56403	49263	46637
25°	54017	46123	44395
30°	49693	42486	42030
35°	43713	38548	38864
40°	37823	34506	35955
45°	32881	30666	32498
50°	29168	27038	28861
55°	25892	23720	24752
60°	23041	20574	20574
65°	20489	17103	16023
70°	17671	12911	11396
75°	14869	8578	7053
80°	11223	4120	3694
85°	5944	1415	1415



TEST NUMBER: P581421
 CATALOG NUMBER: HCC4S07D010MW-HM40525827-41RWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.2	5.0
10°-20°	114.1	14.1
20°-30°	160.9	19.9
30°-40°	166.2	20.5
40°-50°	140.9	17.4
50°-60°	102.5	12.7
60°-70°	59.9	7.4
70°-80°	22.3	2.7
80°-90°	2.9	0.4
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°	315.2	38.9
0°-40°	481.4	59.4
0°-60°	724.8	89.5
0°-90°	809.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	809.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	425	425	425	425	425	
5°	434	431	423	417	415	42
15°	443	429	401	384	380	124
25°	397	375	339	327	326	182
35°	290	278	256	256	258	181
45°	188	183	176	182	186	147
55°	120	115	110	114	115	108
65°	70	64	59	55	55	70
75°	31	26	18	14	15	33
85°	4	3	1	1	1	6
90°	0	0	0	0	0	



TEST NUMBER: P581421

CATALOG NUMBER: HCC4S07D010MW-HM40525827-41RWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	424.9	424.9	424.9	424.9	424.9	424.9	424.9	424.9	424.9
2.5°	428.6	427.5	426.5	424.9	422.8	421.2	419.6	418.6	418.6
5°	434.4	432.8	430.7	427.0	423.3	420.1	417.0	415.4	415.4
7.5°	438.6	436.5	432.3	427.0	420.7	415.9	411.2	409.1	408.0
10°	439.2	437.1	431.3	423.3	414.9	407.5	402.2	399.1	398.5
12.5°	440.2	437.6	430.2	419.1	408.0	399.1	393.3	390.1	389.0
15°	442.9	439.2	429.1	414.9	401.1	390.6	384.3	381.7	380.5
17.5°	440.2	434.9	422.8	405.9	390.6	379.0	372.7	370.0	370.0
20°	429.7	424.4	410.1	391.7	375.3	364.2	357.9	356.3	355.3
22.5°	414.9	409.1	393.7	374.3	357.9	347.9	343.7	341.5	340.9
25°	396.9	391.1	374.7	354.7	338.9	330.5	326.7	326.7	326.2
27.5°	376.9	369.5	352.6	335.1	319.9	313.5	311.9	311.9	312.5
30°	348.9	343.7	329.3	312.5	298.3	294.1	294.1	295.1	295.1
32.5°	318.9	315.1	302.5	287.7	276.5	273.9	275.1	277.1	277.7
35°	290.3	286.1	277.7	264.5	256.0	254.9	256.5	258.1	258.1
37.5°	262.3	258.1	252.3	241.7	235.5	235.9	238.1	240.1	241.7
40°	234.9	231.7	227.5	219.1	214.3	216.4	219.1	221.1	223.3
42.5°	210.6	207.5	204.3	197.9	194.8	197.4	200.6	202.7	204.8
45°	188.5	186.3	183.1	177.9	175.8	178.4	182.1	184.2	186.3
47.5°	169.4	168.4	164.2	159.4	158.3	161.0	164.2	166.8	168.4
50°	152.0	150.4	146.7	142.0	140.9	145.2	147.3	148.9	150.4
52.5°	135.1	133.5	129.3	125.1	125.1	128.3	129.8	130.4	132.0
55°	120.4	118.8	114.6	111.4	110.3	113.0	114.0	114.0	115.1
57.5°	106.6	105.0	100.8	97.1	96.6	98.2	98.2	98.2	98.7
60°	93.4	91.8	87.6	84.4	83.4	83.9	83.4	82.8	83.4
62.5°	81.3	79.7	75.4	71.8	70.8	70.8	69.2	68.6	69.2
65°	70.2	67.6	64.4	60.7	58.6	57.0	54.9	54.9	54.9
67.5°	59.1	57.0	53.3	49.6	47.0	44.4	41.2	42.2	42.8
70°	49.0	47.5	43.2	39.6	35.8	32.8	30.0	31.2	31.6
72.5°	40.2	38.0	34.3	30.0	27.0	22.6	21.2	22.2	22.2
75°	31.2	29.0	25.8	21.6	18.0	14.2	14.2	14.8	14.8
77.5°	23.2	21.2	18.0	14.2	11.0	8.4	9.0	9.0	9.0
80°	15.8	14.2	11.6	8.4	5.8	4.8	4.8	4.8	5.2
82.5°	9.0	8.0	6.4	4.2	2.6	2.6	2.6	2.6	2.6
85°	4.2	3.2	2.6	1.6	1.0	1.0	1.0	1.0	1.0
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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)