

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: P581548

Luminaire Tested: **HCC4S07D010MW-HM40525940-41WWBB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581548
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S07D010MW-HM40525940-41WWBB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

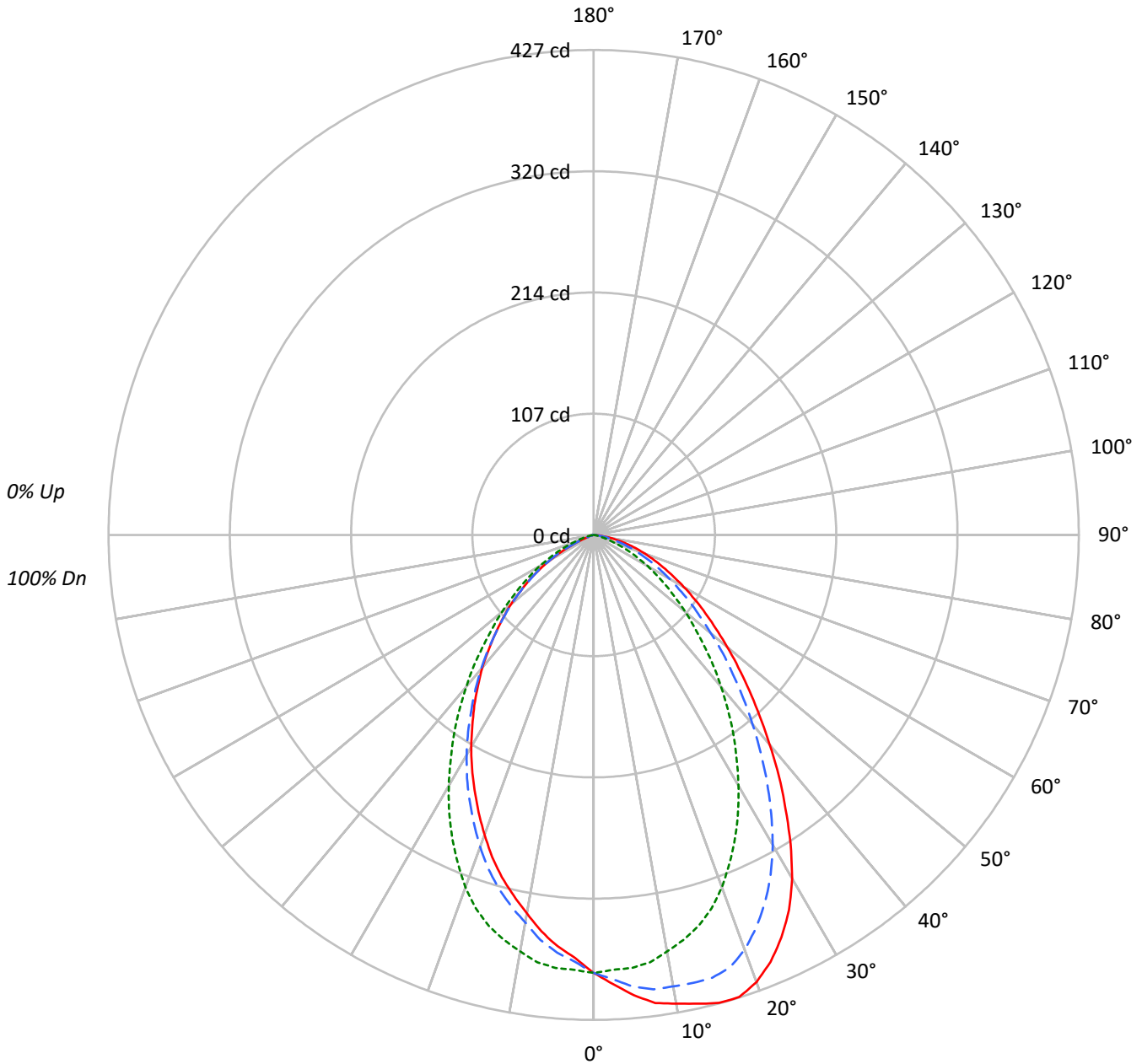
Lumens per Lamp: N/A
Luminaire Lumens: 665.9 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.04 / 1.12
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 8
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: P581548
CATALOG NUMBER: HCC4S07D010MW-HM40525940-41WWBB

Luminous Intensity Polar Plot



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



TEST NUMBER: P581548

CATALOG NUMBER: HCC4S07D010MW-HM40525940-41WWBB

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	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89					89			
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78					78			
3	96	87	80	75	94	86	79	74	83	78	73	80	76	72	78	74	71	69					69			
4	89	79	72	66	87	78	71	65	75	69	65	73	68	64	71	67	63	61					61			
5	83	72	64	58	81	71	64	58	69	62	58	67	61	57	65	60	56	55					55			
6	77	66	58	52	75	65	57	52	63	57	52	61	56	51	60	55	51	49					49			
7	72	60	53	47	71	59	52	47	58	51	47	57	51	46	55	50	46	44					44			
8	68	56	48	43	66	55	48	43	54	47	42	53	47	42	51	46	42	40					40			
9	64	52	44	39	62	51	44	39	50	43	39	49	43	39	48	43	39	37					37			
10	60	48	41	36	59	47	41	36	46	40	36	46	40	36	45	39	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	47562	47562	47562
5°	50369	47385	45020
10°	52479	46643	42372
15°	54475	45511	39841
20°	54999	43329	36845
25°	53214	40081	33738
30°	49764	36319	30693
35°	44345	32284	27571
40°	38757	28065	24555
45°	33771	23828	21246
50°	29455	20206	18211
55°	25827	16731	14731
60°	22597	13543	10805
65°	19701	10098	6071
70°	17202	6528	1984
75°	14106	3431	524
80°	10513	1563	426
85°	6227	849	849



TEST NUMBER: P581548
 CATALOG NUMBER: HCC4S07D010MW-HM40525940-41WWBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.4	5.5
10°-20°	101.8	15.3
20°-30°	140.8	21.1
30°-40°	141.6	21.3
40°-50°	114.2	17.2
50°-60°	77.2	11.6
60°-70°	39.3	5.9
70°-80°	12.6	1.9
80°-90°	2.0	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°	279.0	41.9
0°-40°	420.6	63.2
0°-60°	612.1	91.9
0°-90°	665.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	665.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	386	386	386	386	386	
5°	407	399	383	369	364	39
15°	427	404	356	322	312	120
25°	391	357	294	258	248	179
35°	294	266	214	188	183	184
45°	194	173	137	122	122	150
55°	120	104	78	68	68	108
65°	68	55	35	22	21	68
75°	30	21	7	2	1	32
85°	4	2	1	1	1	6
90°	0	0	0	0	0	



TEST NUMBER: P581548

CATALOG NUMBER: HCC4S07D010MW-HM40525940-41WWBB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	385.6	385.6	385.6	385.6	385.6	385.6	385.6	385.6	385.6
2.5°	395.9	393.7	391.6	387.7	383.3	379.0	376.2	373.9	372.9
5°	406.8	404.1	399.2	391.0	382.7	375.1	369.1	365.2	363.6
7.5°	415.7	411.8	403.6	392.0	379.5	367.5	359.7	354.3	352.1
10°	419.0	414.6	403.6	388.3	372.4	357.6	346.5	341.1	338.3
12.5°	422.8	417.9	404.1	385.0	365.2	347.7	335.0	328.0	325.2
15°	426.6	420.0	403.6	380.0	356.4	336.2	322.4	315.3	312.0
17.5°	426.6	419.0	399.2	371.8	344.9	323.5	308.2	300.0	297.2
20°	419.0	410.1	388.7	358.6	330.1	307.0	292.2	284.0	280.7
22.5°	406.8	397.0	373.9	342.8	312.6	290.1	275.3	267.7	264.4
25°	391.0	381.1	357.0	324.7	294.5	272.0	258.3	251.2	247.9
27.5°	372.4	361.4	337.3	304.9	275.3	253.9	241.3	234.7	231.9
30°	349.4	338.9	315.3	283.5	255.0	235.2	223.7	217.7	215.5
32.5°	322.4	313.6	290.6	261.1	234.2	216.1	205.6	200.7	198.5
35°	294.5	286.2	266.0	238.5	214.4	197.4	187.5	184.2	183.1
37.5°	268.1	261.1	241.3	216.1	194.1	179.3	170.6	168.3	167.3
40°	240.7	235.8	217.7	194.7	174.3	161.3	154.1	152.5	152.5
42.5°	216.1	210.5	194.7	173.9	155.8	142.6	137.7	136.0	136.6
45°	193.6	188.1	173.3	154.1	136.6	125.5	121.8	121.8	121.8
47.5°	172.7	167.9	154.1	134.4	120.1	111.3	107.4	107.4	108.0
50°	153.5	150.2	134.9	117.9	105.3	97.1	94.3	93.8	94.9
52.5°	135.4	131.6	117.9	102.5	90.5	83.9	81.1	80.6	81.1
55°	120.1	115.7	103.7	88.9	77.8	71.2	68.1	67.5	68.5
57.5°	105.3	102.0	89.3	76.2	65.8	59.2	56.4	55.4	56.0
60°	91.6	88.3	76.8	64.2	54.9	48.3	44.4	43.4	43.8
62.5°	79.0	76.2	65.2	53.1	43.8	37.8	34.0	31.3	32.3
65°	67.5	64.8	54.9	42.8	34.6	28.0	22.5	20.3	20.8
67.5°	57.6	54.3	45.0	34.0	25.7	18.7	12.6	11.5	11.5
70°	47.7	44.4	36.2	26.3	18.1	9.9	5.5	5.5	5.5
72.5°	38.4	35.6	28.0	19.7	11.5	4.4	2.2	2.2	2.2
75°	29.6	27.4	20.8	13.7	7.2	2.2	1.6	1.1	1.1
77.5°	22.0	19.7	14.8	9.3	4.4	1.1	1.1	1.1	1.1
80°	14.8	13.2	9.9	5.5	2.2	0.6	0.6	0.6	0.6
82.5°	8.8	7.6	5.5	2.7	1.1	0.6	0.6	0.6	0.6
85°	4.4	3.3	2.2	1.1	0.6	0.6	0.6	0.6	0.6
87.5°	1.1	0.6	0.6	0.6	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)