

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: P580235

Luminaire Tested: **HCC4S25D010MW-HM40525935-41WWW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580235
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: HCC4S25D010MW-HM40525935-41WWW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

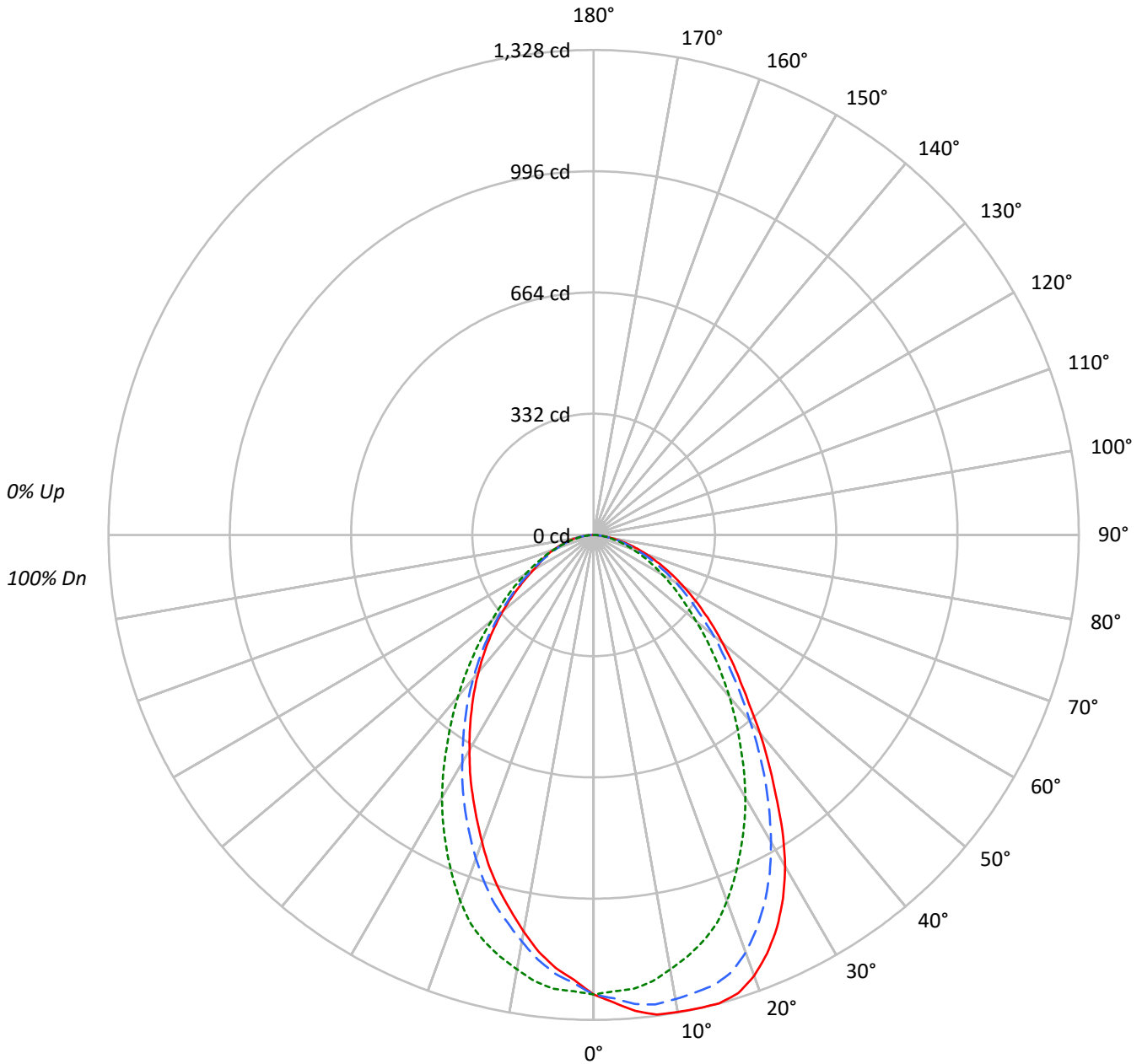
Lumens per Lamp: N/A
Luminaire Lumens: 2246.9 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.03 / 1.1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 26.8
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: P580235
CATALOG NUMBER: HCC4S25D010MW-HM40525935-41WWW

Luminous Intensity Polar Plot



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



TEST NUMBER: P580235

CATALOG NUMBER: HCC4S25D010MW-HM40525935-41WWW

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	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°	155206	155206	155206
5°	162027	154511	147367
10°	166117	151288	138124
15°	169556	147260	128169
20°	168658	140082	117361
25°	161561	129551	106768
30°	149278	118286	96765
35°	130837	105208	87606
40°	113919	92955	78898
45°	99167	81078	70490
50°	88347	69868	62192
55°	78965	61439	53805
60°	70480	53680	46378
65°	62633	47077	44042
70°	54961	40536	41113
75°	46561	34551	38078
80°	35800	29407	34735
85°	20945	23068	29437



TEST NUMBER: P580235
 CATALOG NUMBER: HCC4S25D010MW-HM40525935-41WWW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.9	5.2
10°-20°	325.3	14.5
20°-30°	444.5	19.8
30°-40°	446.3	19.9
40°-50°	369.2	16.4
50°-60°	267.6	11.9
60°-70°	169.5	7.5
70°-80°	85.7	3.8
80°-90°	21.0	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°	887.7	39.5
0°-40°	1334.1	59.4
0°-60°	1970.8	87.7
0°-90°	2246.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2246.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1258	1258	1258	1258	1258	
5°	1309	1289	1248	1206	1190	125
15°	1328	1276	1153	1047	1004	373
25°	1187	1109	952	832	784	543
35°	869	817	699	613	582	545
45°	568	536	465	419	404	442
55°	367	334	286	261	250	330
65°	215	191	161	145	151	214
75°	98	84	72	76	80	104
85°	15	15	16	19	21	20
90°	0	0	0	0	0	

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



TEST NUMBER: P580235

CATALOG NUMBER: HCC4S25D010MW-HM40525935-41WWW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1258.3	1258.3	1258.3	1258.3	1258.3	1258.3	1258.3	1258.3	1258.3
2.5°	1282.0	1277.5	1270.1	1261.2	1250.8	1239.0	1228.7	1222.7	1219.8
5°	1308.6	1302.6	1289.3	1270.1	1247.9	1225.6	1206.4	1194.6	1190.2
7.5°	1324.9	1316.0	1296.8	1267.1	1233.1	1200.5	1172.4	1156.1	1151.7
10°	1326.3	1316.0	1290.8	1250.8	1207.9	1165.0	1130.9	1107.2	1102.8
12.5°	1327.8	1314.5	1283.4	1236.0	1182.7	1129.5	1088.0	1059.9	1052.5
15°	1327.8	1314.5	1276.0	1219.8	1153.2	1092.4	1046.6	1014.0	1003.7
17.5°	1316.0	1301.2	1255.3	1190.2	1117.6	1049.5	996.2	962.1	951.9
20°	1284.9	1268.7	1216.8	1145.7	1067.2	996.2	942.9	907.4	894.1
22.5°	1240.4	1221.2	1166.5	1089.5	1011.0	938.5	886.7	849.7	837.8
25°	1187.1	1168.0	1108.8	1033.3	951.9	883.8	832.0	797.9	784.5
27.5°	1122.1	1101.3	1043.6	968.1	892.6	824.5	777.2	746.0	732.7
30°	1048.1	1025.8	971.1	898.6	830.5	765.3	719.4	694.2	679.4
32.5°	962.1	942.9	894.1	828.9	765.3	703.1	664.6	642.4	630.5
35°	868.9	858.6	817.2	760.8	698.7	646.9	612.8	592.2	581.8
37.5°	786.0	775.6	740.2	692.8	638.0	590.6	562.5	544.7	535.8
40°	707.5	698.7	664.6	624.7	577.3	535.8	512.2	498.9	490.0
42.5°	630.5	626.1	598.0	561.0	519.6	484.0	464.8	454.4	447.1
45°	568.5	562.5	535.8	500.4	464.8	435.2	419.0	411.5	404.1
47.5°	513.7	506.2	478.1	447.1	414.5	387.8	373.0	365.7	362.6
50°	460.4	453.0	427.8	396.7	364.1	344.9	333.1	325.7	324.1
52.5°	413.0	405.6	377.4	347.8	322.7	306.4	296.0	288.7	285.7
55°	367.2	358.2	334.5	306.4	285.7	270.8	260.6	253.1	250.2
57.5°	325.7	316.8	296.0	269.4	250.2	236.9	227.9	220.6	217.6
60°	285.7	278.3	259.1	233.9	217.6	205.7	196.9	190.9	188.0
62.5°	248.7	242.7	223.5	201.3	188.0	177.6	170.3	164.3	167.3
65°	214.6	208.8	190.9	171.7	161.3	150.9	145.1	145.1	150.9
67.5°	182.1	176.1	161.3	145.1	136.2	128.8	124.3	128.8	133.2
70°	152.4	146.5	133.2	119.9	112.4	106.6	106.6	111.0	114.0
72.5°	124.3	118.4	108.0	97.7	91.8	87.4	91.8	94.7	97.7
75°	97.7	93.3	84.3	77.0	72.5	71.0	75.5	78.5	79.9
77.5°	72.5	69.5	63.7	57.7	54.8	56.2	60.7	62.2	63.7
80°	50.4	48.9	44.4	41.4	41.4	42.9	45.8	47.4	48.9
82.5°	31.0	31.0	28.1	26.6	28.1	31.0	32.5	34.1	34.1
85°	14.8	16.3	14.8	14.8	16.3	19.2	19.2	20.8	20.8
87.5°	4.4	4.4	5.9	5.9	7.5	7.5	7.5	7.5	8.9
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)