

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: P592727

Luminaire Tested: **HCC4W25D010SL-HM40525950-41WWWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592727
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: HCC4W25D010SL-HM40525950-41WWWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

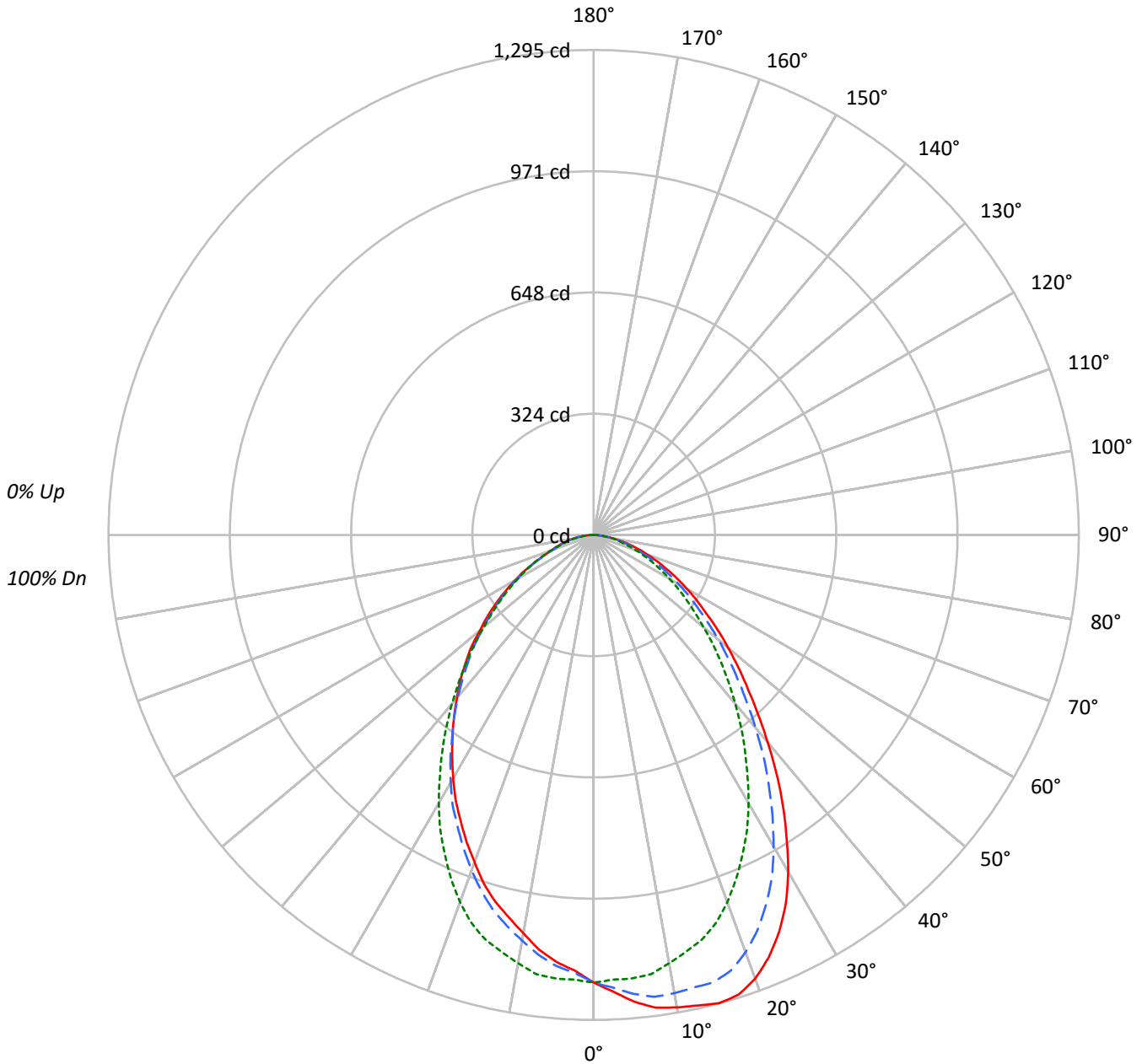
Lumens per Lamp: N/A
Luminaire Lumens: 2317.5 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P592727
CATALOG NUMBER: HCC4W25D010SL-HM40525950-41WWWB

Luminous Intensity Polar Plot





TEST NUMBER: P592727

CATALOG NUMBER: HCC4W25D010SL-HM40525950-41WWWB

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°	147398	147398	147398
5°	154981	147193	141696
10°	160443	145451	135268
15°	165329	142803	129485
20°	165521	136932	122021
25°	159288	127972	114417
30°	147925	117773	106835
35°	132583	106036	98854
40°	116350	94597	91377
45°	101679	83765	84288
50°	89786	73283	75951
55°	79180	64987	68299
60°	70776	57504	59798
65°	62662	50579	50579
70°	54781	43168	43168
75°	46799	36553	40937
80°	37079	32746	37079
85°	23776	28305	34673



TEST NUMBER: P592727
 CATALOG NUMBER: HCC4W25D010SL-HM40525950-41WWWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.2	4.9
10°-20°	318.8	13.8
20°-30°	446.7	19.3
30°-40°	460.2	19.9
40°-50°	391.8	16.9
50°-60°	290.3	12.5
60°-70°	182.2	7.9
70°-80°	90.5	3.9
80°-90°	23.8	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°	878.8	37.9
0°-40°	1339.0	57.8
0°-60°	2021.1	87.2
0°-90°	2317.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2317.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1195	1195	1195	1195	1195	
5°	1252	1230	1189	1155	1144	120
15°	1295	1236	1118	1037	1014	364
25°	1170	1089	940	859	841	535
35°	880	815	704	658	656	549
45°	583	543	480	471	483	452
55°	368	339	302	308	318	333
65°	215	193	173	170	173	214
75°	98	87	77	83	86	105
85°	17	17	20	23	24	22
90°	0	0	0	0	0	

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



TEST NUMBER: P592727

CATALOG NUMBER: HCC4W25D010SL-HM40525950-41WWWB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1195.0	1195.0	1195.0	1195.0	1195.0	1195.0	1195.0	1195.0	1195.0
2.5°	1221.1	1216.5	1210.4	1199.6	1188.8	1179.7	1170.4	1165.9	1164.3
5°	1251.7	1242.6	1230.3	1210.4	1188.8	1170.4	1155.1	1147.4	1144.4
7.5°	1273.3	1264.0	1244.0	1213.4	1182.7	1155.1	1130.6	1119.9	1116.8
10°	1281.0	1270.1	1242.6	1201.1	1161.3	1127.5	1099.9	1086.1	1080.0
12.5°	1287.1	1273.3	1237.9	1188.8	1139.8	1098.4	1069.3	1050.8	1046.2
15°	1294.7	1279.4	1236.5	1176.6	1118.3	1069.3	1037.0	1020.2	1014.0
17.5°	1287.1	1270.1	1219.5	1152.0	1086.1	1032.4	997.1	981.8	975.7
20°	1261.0	1242.6	1185.8	1113.8	1043.2	987.9	952.7	937.3	929.6
22.5°	1221.1	1201.1	1142.9	1066.1	994.1	940.3	906.6	891.2	886.7
25°	1170.4	1150.6	1089.1	1010.9	940.3	888.2	859.1	845.3	840.7
27.5°	1110.6	1090.7	1030.9	954.1	886.7	837.6	814.6	800.8	797.8
30°	1038.6	1018.6	960.3	889.8	826.9	780.8	762.4	751.7	750.1
32.5°	958.7	941.9	888.2	823.8	764.0	725.6	711.8	704.2	702.6
35°	880.5	862.1	814.6	756.3	704.2	670.4	658.1	656.5	656.5
37.5°	800.8	782.4	744.0	690.3	645.8	615.2	610.6	612.0	612.0
40°	722.6	705.6	671.9	627.4	587.5	564.5	563.0	566.1	567.5
42.5°	648.9	635.1	604.4	566.1	532.3	513.9	515.4	521.6	526.2
45°	582.9	570.7	543.0	509.3	480.2	466.4	470.9	478.6	483.2
47.5°	523.1	512.3	486.3	455.6	431.1	421.9	428.0	437.1	443.4
50°	467.9	458.7	434.1	401.9	381.9	375.8	383.5	392.7	395.8
52.5°	418.7	409.6	383.5	355.9	340.5	337.5	345.1	352.8	357.4
55°	368.2	360.5	339.0	314.4	302.2	300.7	308.3	314.4	317.6
57.5°	326.7	319.1	299.2	277.6	266.9	265.4	273.1	277.6	279.2
60°	286.9	279.2	260.8	240.8	233.1	233.1	237.8	240.8	242.4
62.5°	250.1	242.4	225.5	208.6	202.5	202.5	202.5	204.0	208.6
65°	214.7	208.6	193.3	177.9	173.3	170.3	170.3	170.3	173.3
67.5°	182.6	176.5	164.2	150.4	145.8	141.1	139.5	142.7	142.7
70°	151.9	147.2	135.0	124.3	119.7	115.0	113.5	119.7	119.7
72.5°	124.3	119.7	112.0	101.3	96.6	95.1	98.2	101.3	102.7
75°	98.2	93.6	87.4	81.3	76.7	78.2	82.9	84.3	85.9
77.5°	73.6	72.1	65.9	61.4	61.4	62.9	65.9	69.0	70.6
80°	52.2	50.6	47.5	44.5	46.1	49.1	50.6	53.7	52.2
82.5°	32.2	32.2	30.7	30.7	32.2	35.3	36.8	38.4	39.9
85°	16.8	16.8	16.8	18.4	20.0	21.5	23.0	24.5	24.5
87.5°	4.6	6.1	6.1	7.7	9.3	9.3	10.7	10.7	10.7
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)