

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: P580123

Luminaire Tested: **HCC4W25D010BZ-HM40525827-41WDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580123
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W25D010BZ-HM40525827-41WDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

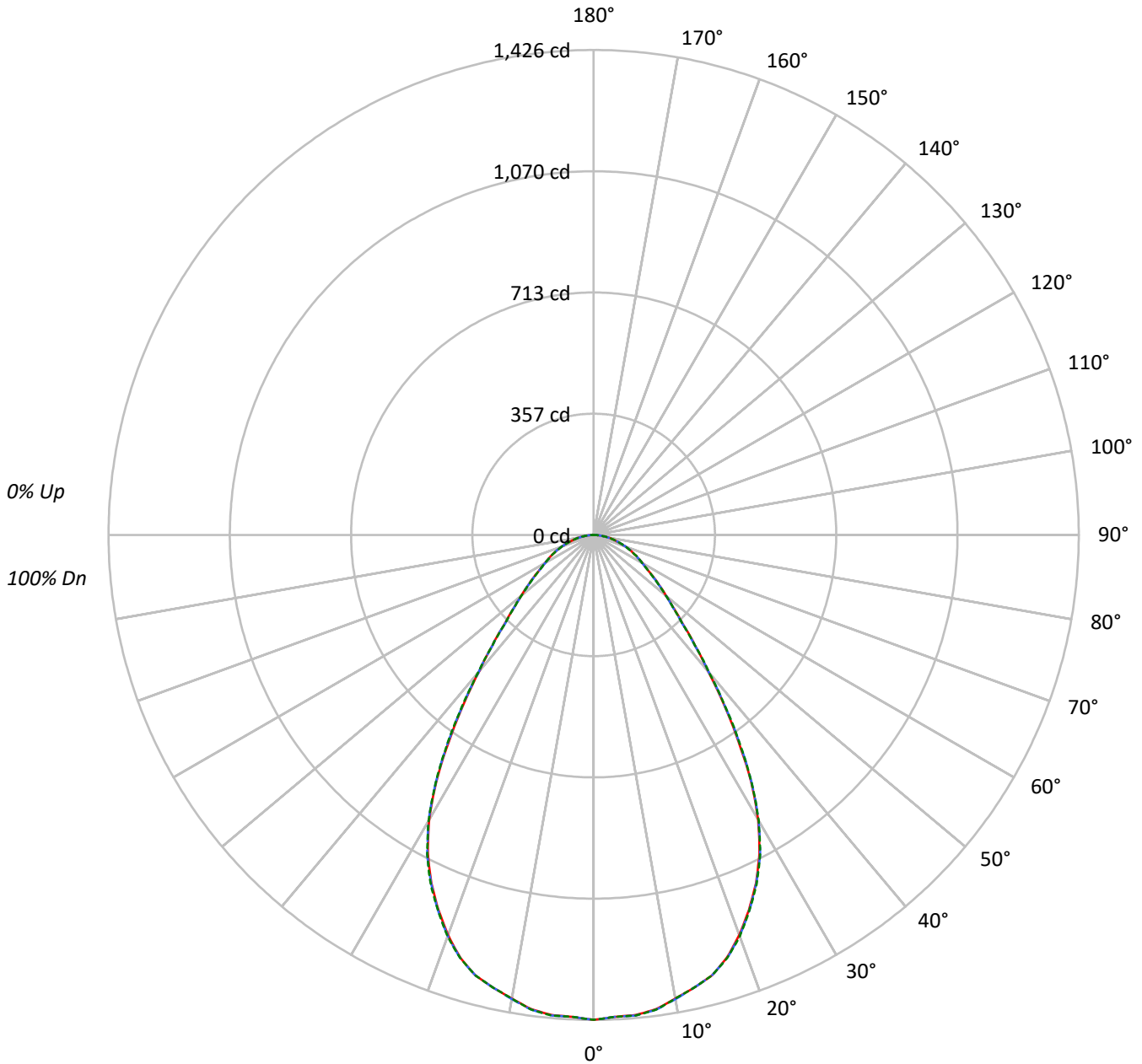
Lumens per Lamp: N/A
Luminaire Lumens: 2199.7 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580123
CATALOG NUMBER: HCC4W25D010BZ-HM40525827-41WDW

Luminous Intensity Polar Plot





TEST NUMBER: P580123

CATALOG NUMBER: HCC4W25D010BZ-HM40525827-41WDW

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								
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89								
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78								
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69								
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	68	64	62								
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56								
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51								
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46								
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42								
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39								
10	61	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	175854	175854	175854
5°	175436	175622	175622
10°	173394	173569	173394
15°	171318	171318	171318
20°	164287	164668	164865
25°	153667	153871	154266
30°	137699	138112	138112
35°	111789	112677	112903
40°	84373	84839	85081
45°	64611	64367	64367
50°	53250	52962	52962
55°	45697	45375	45375
60°	40778	40408	40408
65°	38321	38321	38321
70°	35667	35667	35667
75°	32359	33026	32359
80°	30402	29336	30402
85°	25050	25050	25050



TEST NUMBER: P580123
 CATALOG NUMBER: HCC4W25D010BZ-HM40525827-41WDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.3	6.1
10°-20°	375.9	17.1
20°-30°	516.6	23.5
30°-40°	464.5	21.1
40°-50°	293.5	13.3
50°-60°	191.6	8.7
60°-70°	129.8	5.9
70°-80°	73.0	3.3
80°-90°	20.5	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°	1026.8	46.7
0°-40°	1491.3	67.8
0°-60°	1976.4	89.8
0°-90°	2199.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2199.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1426	1426	1426	1426	1426	
5°	1417	1417	1418	1418	1418	134
15°	1342	1342	1342	1342	1342	376
25°	1129	1131	1131	1134	1134	515
35°	742	745	748	751	750	462
45°	370	369	369	369	369	294
55°	212	212	211	212	211	192
65°	131	131	131	131	131	130
75°	68	69	69	69	68	73
85°	18	18	18	18	18	21
90°	0	0	0	0	0	



TEST NUMBER: P580123

CATALOG NUMBER: HCC4W25D010BZ-HM40525827-41WDW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1425.7	1425.7	1425.7	1425.7	1425.7
2.5°	1418.4	1418.4	1418.4	1418.4	1418.4
5°	1416.9	1416.9	1418.4	1418.4	1418.4
7.5°	1406.5	1408.0	1408.0	1408.0	1408.0
10°	1384.4	1384.4	1385.8	1385.8	1384.4
12.5°	1363.7	1363.7	1363.7	1365.2	1363.7
15°	1341.6	1341.6	1341.6	1341.6	1341.6
17.5°	1303.2	1304.7	1304.7	1304.7	1304.7
20°	1251.6	1254.5	1254.5	1256.0	1256.0
22.5°	1192.6	1194.0	1195.5	1197.0	1195.5
25°	1129.1	1130.6	1130.6	1133.5	1133.5
27.5°	1055.3	1056.7	1059.7	1059.7	1059.7
30°	966.8	968.2	969.7	969.7	969.7
32.5°	861.9	861.9	864.9	866.4	864.9
35°	742.4	745.4	748.3	751.2	749.8
37.5°	628.7	631.7	633.1	633.1	634.6
40°	524.0	526.9	526.9	529.8	528.4
42.5°	441.3	439.9	439.9	442.8	441.3
45°	370.4	369.0	369.0	369.0	369.0
47.5°	318.8	317.4	317.4	317.4	317.4
50°	277.5	276.0	276.0	276.0	276.0
52.5°	243.5	242.1	242.1	242.1	240.6
55°	212.5	212.5	211.0	212.5	211.0
57.5°	184.5	184.5	184.5	184.5	184.5
60°	165.3	163.8	163.8	163.8	163.8
62.5°	147.6	147.6	147.6	147.6	147.6
65°	131.3	131.3	131.3	131.3	131.3
67.5°	115.2	113.7	115.2	115.2	113.7
70°	98.9	97.4	98.9	98.9	98.9
72.5°	82.6	82.6	82.6	84.1	82.6
75°	67.9	69.3	69.3	69.3	67.9
77.5°	54.6	56.1	54.6	54.6	54.6
80°	42.8	41.3	41.3	41.3	42.8
82.5°	29.5	29.5	29.5	29.5	29.5
85°	17.7	17.7	17.7	17.7	17.7
87.5°	7.3	7.3	7.3	7.3	7.3
90°	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)