

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: P580680

Luminaire Tested: **HCC4W40D010BZ-HM43040940-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580680
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W40D010BZ-HM43040940-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

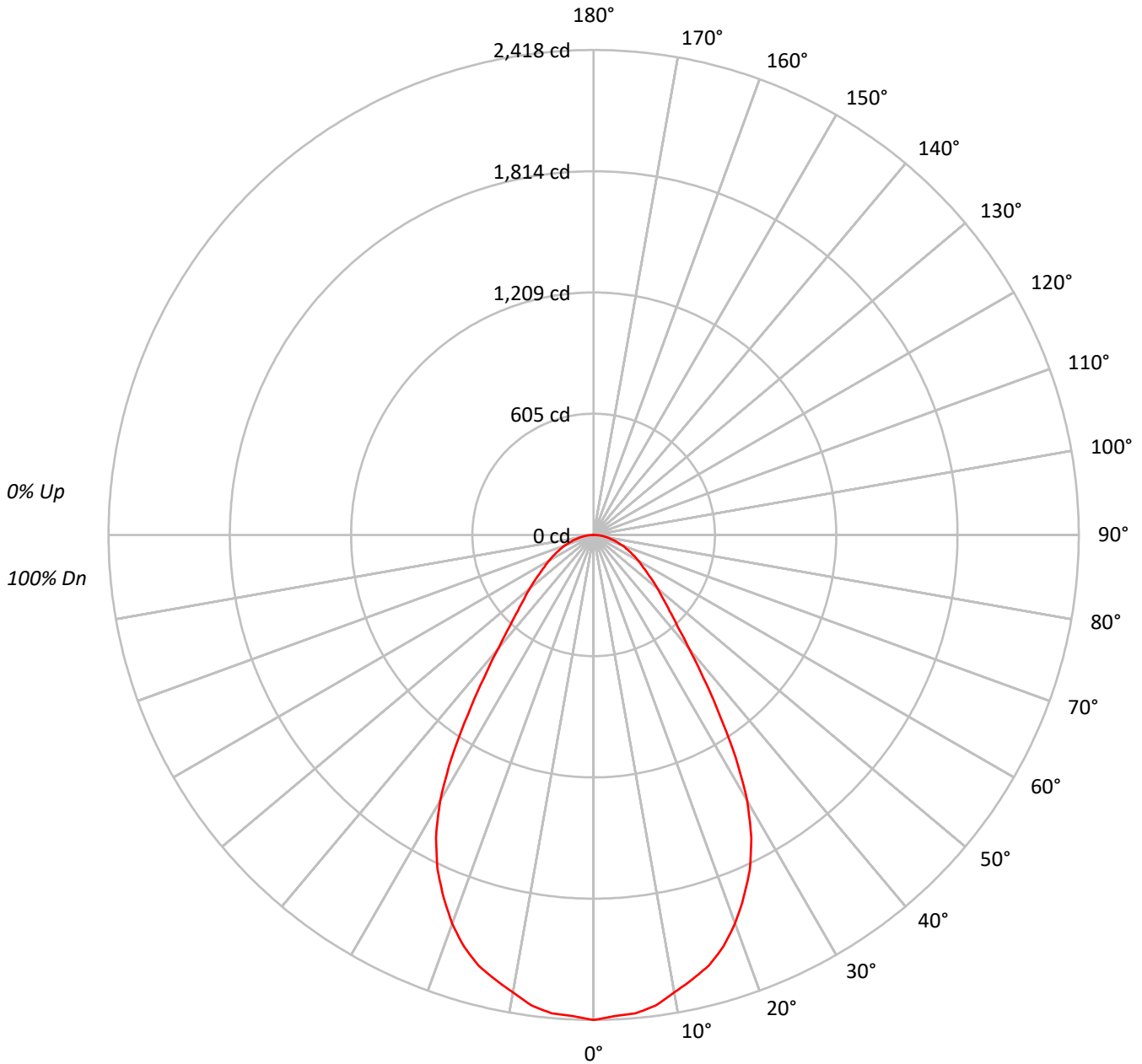
Lumens per Lamp: N/A
Luminaire Lumens: 3434.2 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 41
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: P580680
CATALOG NUMBER: HCC4W40D010BZ-HM43040940-41PSMDW

Luminous Intensity Polar Plot





TEST NUMBER: P580680
 CATALOG NUMBER: HCC4W40D010BZ-HM43040940-41PSMDW

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	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	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	298287
5°	296430
10°	290113
15°	283704
20°	270583
25°	250486
30°	217871
35°	164521
40°	119233
45°	93184
50°	79673
55°	68922
60°	63498
65°	58109
70°	54312
75°	49754
80°	46597
85°	44721



TEST NUMBER: P580680
 CATALOG NUMBER: HCC4W40D010BZ-HM43040940-41PSMDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.1	6.6
10°-20°	622.3	18.1
20°-30°	836.8	24.4
30°-40°	688.1	20.0
40°-50°	422.6	12.3
50°-60°	292.5	8.5
60°-70°	199.4	5.8
70°-80°	111.1	3.2
80°-90°	35.3	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°	1685.3	49.1
0°-40°	2373.3	69.1
0°-60°	3088.4	89.9
0°-90°	3434.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3434.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2418	
5°	2394	226
15°	2222	622
25°	1840	837
35°	1093	688
45°	534	423
55°	320	292
65°	199	199
75°	104	111
85°	32	35
90°	0	



TEST NUMBER: P580680
CATALOG NUMBER: HCC4W40D010BZ-HM43040940-41PSMDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	2418.3
2.5°	2401.3
5°	2394.1
7.5°	2367.3
10°	2316.3
12.5°	2270.2
15°	2221.7
17.5°	2151.3
20°	2061.4
22.5°	1954.6
25°	1840.5
27.5°	1702.0
30°	1529.7
32.5°	1318.4
35°	1092.6
37.5°	898.4
40°	740.5
42.5°	619.1
45°	534.2
47.5°	468.6
50°	415.2
52.5°	366.7
55°	320.5
57.5°	286.5
60°	257.4
62.5°	228.2
65°	199.1
67.5°	174.9
70°	150.6
72.5°	126.2
75°	104.4
77.5°	82.5
80°	65.6
82.5°	48.5
85°	31.6
87.5°	17.0
90°	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°

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)