

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: P584621

Luminaire Tested: **HCC8S40D010BZ-HM82555935-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584621
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8S40D010BZ-HM82555935-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

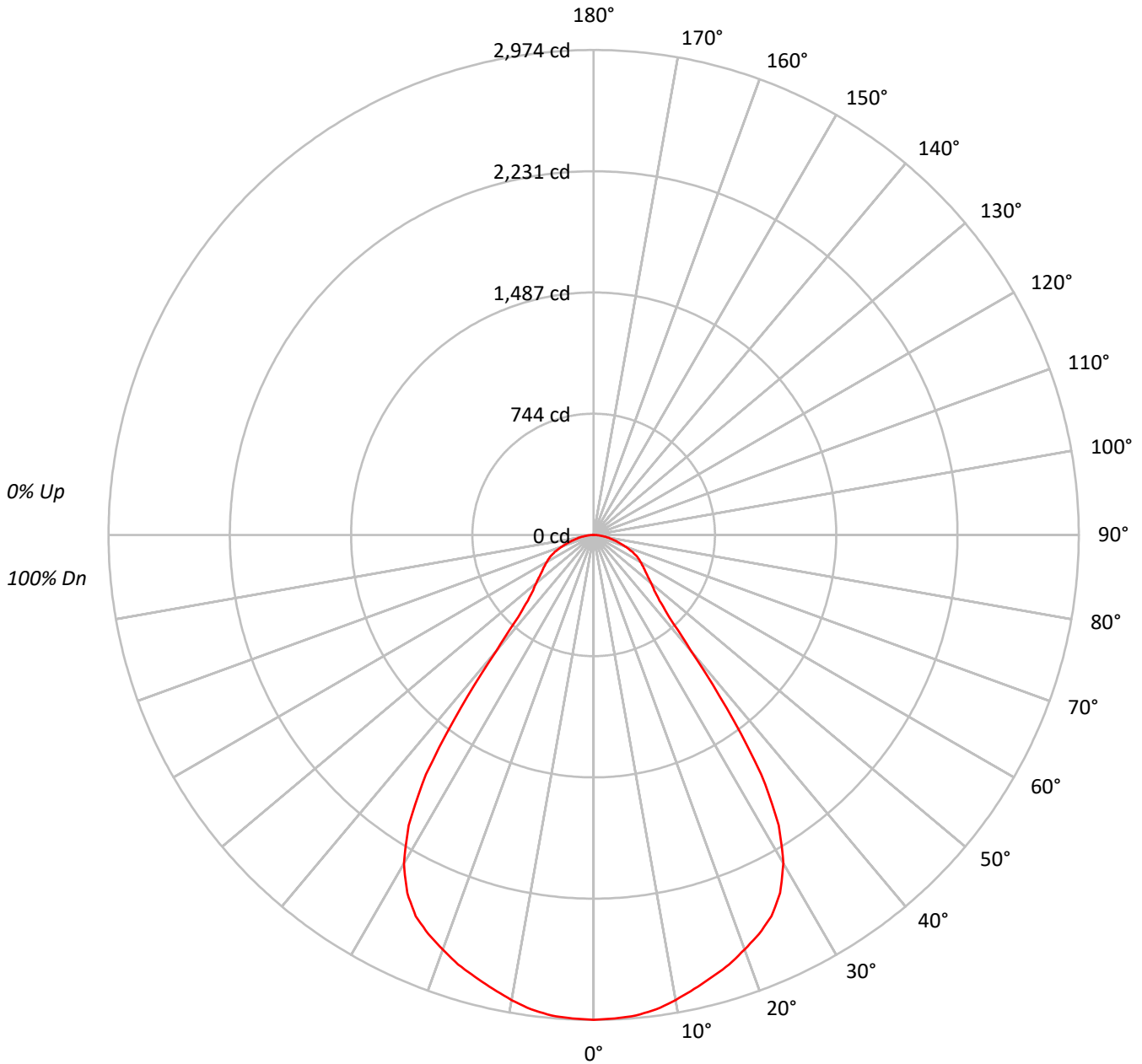
Lumens per Lamp: N/A
Luminaire Lumens: 4586.9 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P584621
CATALOG NUMBER: HCC8S40D010BZ-HM82555935-81WDW

Luminous Intensity Polar Plot





TEST NUMBER: P584621
 CATALOG NUMBER: HCC8S40D010BZ-HM82555935-81WDW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									20									20
RC	80									50									30									10									0									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	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	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89																												
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79																												
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70																												
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63																												
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57																												
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52																												
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48																												
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44																												
9	66	54	47	43	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°	91704
5°	91590
10°	90686
15°	89601
20°	88772
25°	87775
30°	82821
35°	67440
40°	37259
45°	24866
50°	22058
55°	20709
60°	20438
65°	20255
70°	18302
75°	16358
80°	14313
85°	12666



TEST NUMBER: P584621
 CATALOG NUMBER: HCC8S40D010BZ-HM82555935-81WDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.4	6.1
10°-20°	792.5	17.3
20°-30°	1177.6	25.7
30°-40°	1060.5	23.1
40°-50°	470.1	10.2
50°-60°	348.2	7.6
60°-70°	270.7	5.9
70°-80°	146.8	3.2
80°-90°	40.2	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°	2250.5	49.1
0°-40°	3311.0	72.2
0°-60°	4129.2	90.0
0°-90°	4586.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4586.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2974	
5°	2959	280
15°	2807	792
25°	2580	1178
35°	1792	1060
45°	570	470
55°	385	348
65°	278	271
75°	137	147
85°	36	40
90°	0	



TEST NUMBER: P584621
CATALOG NUMBER: HCC8S40D010BZ-HM82555935-81WDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	2973.9
2.5°	2968.0
5°	2958.9
7.5°	2935.1
10°	2896.2
12.5°	2851.5
15°	2806.7
17.5°	2761.9
20°	2705.2
22.5°	2648.5
25°	2579.8
27.5°	2475.3
30°	2326.0
32.5°	2110.9
35°	1791.5
37.5°	1337.7
40°	925.6
42.5°	683.8
45°	570.2
47.5°	504.6
50°	459.8
52.5°	418.0
55°	385.2
57.5°	358.3
60°	331.4
62.5°	307.5
65°	277.6
67.5°	241.8
70°	203.0
72.5°	170.2
75°	137.3
77.5°	107.5
80°	80.6
82.5°	56.8
85°	35.8
87.5°	14.9
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)