

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: P580653

Luminaire Tested: **HCC4W40D010MB-HM43040935-41MDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580653
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W40D010MB-HM43040935-41MDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

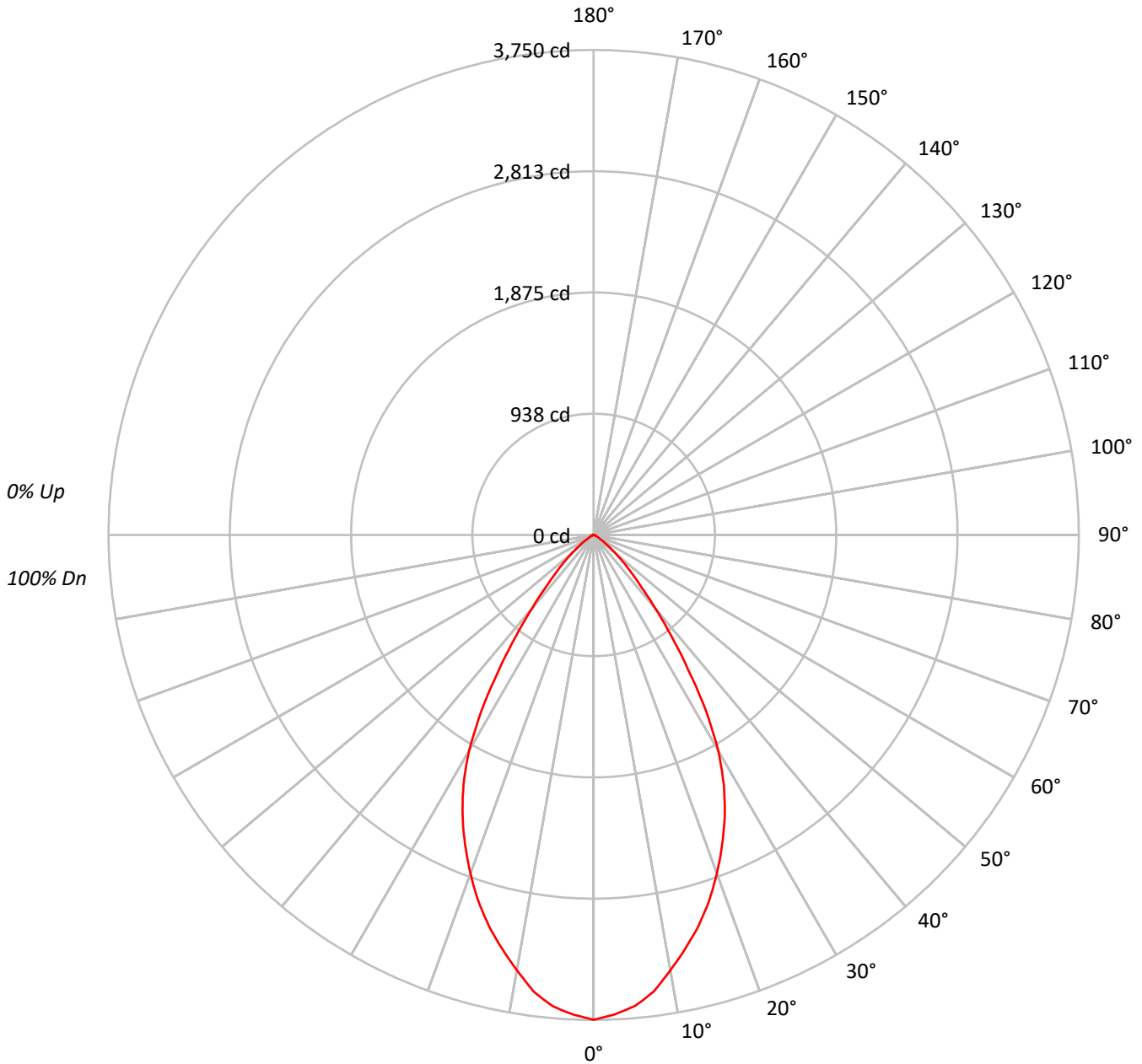
Lumens per Lamp: N/A
Luminaire Lumens: 3572.7 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580653
CATALOG NUMBER: HCC4W40D010MB-HM43040935-41MDH

Luminous Intensity Polar Plot





TEST NUMBER: P580653
 CATALOG NUMBER: HCC4W40D010MB-HM43040935-41MDH

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	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93			93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86			86
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79			79
4	96	88	82	78	94	87	81	77	85	80	76	82	79	75	81	77	74	73			73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67			67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62			62
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58			58
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	56	54			54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51			51
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	47			47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	462509
5°	452860
10°	427949
15°	399704
20°	365564
25°	326442
30°	274144
35°	192844
40°	118943
45°	71223
50°	41967
55°	20903
60°	10780
65°	7092
70°	4364
75°	3479
80°	1776
85°	3538



TEST NUMBER: P580653
 CATALOG NUMBER: HCC4W40D010MB-HM43040935-41MDH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.5	9.6
10°-20°	875.0	24.5
20°-30°	1091.2	30.5
30°-40°	803.7	22.5
40°-50°	330.6	9.3
50°-60°	96.6	2.7
60°-70°	24.8	0.7
70°-80°	7.7	0.2
80°-90°	1.7	0.0
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°	2307.7	64.6
0°-40°	3111.4	87.1
0°-60°	3538.5	99.0
0°-90°	3572.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3572.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3750	
5°	3658	342
15°	3130	875
25°	2399	1091
35°	1281	804
45°	408	331
55°	97	97
65°	24	25
75°	7	8
85°	2	2
90°	0	



TEST NUMBER: P580653
CATALOG NUMBER: HCC4W40D010MB-HM43040935-41MDH

CANDELA DISTRIBUTION (FULL):

	0°
0°	3749.7
2.5°	3710.8
5°	3657.5
7.5°	3560.2
10°	3416.8
12.5°	3275.9
15°	3130.1
17.5°	2967.3
20°	2785.0
22.5°	2595.5
25°	2398.6
27.5°	2179.9
30°	1924.8
32.5°	1616.0
35°	1280.7
37.5°	984.2
40°	738.7
42.5°	546.8
45°	408.3
47.5°	301.3
50°	218.7
52.5°	150.7
55°	97.2
57.5°	58.3
60°	43.7
62.5°	31.6
65°	24.3
67.5°	17.0
70°	12.1
72.5°	9.8
75°	7.3
77.5°	4.8
80°	2.5
82.5°	2.5
85°	2.5
87.5°	0.0
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)