

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: P584560

Luminaire Tested: **HCC8S40D010SL-HM82555840-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584560
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8S40D010SL-HM82555840-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

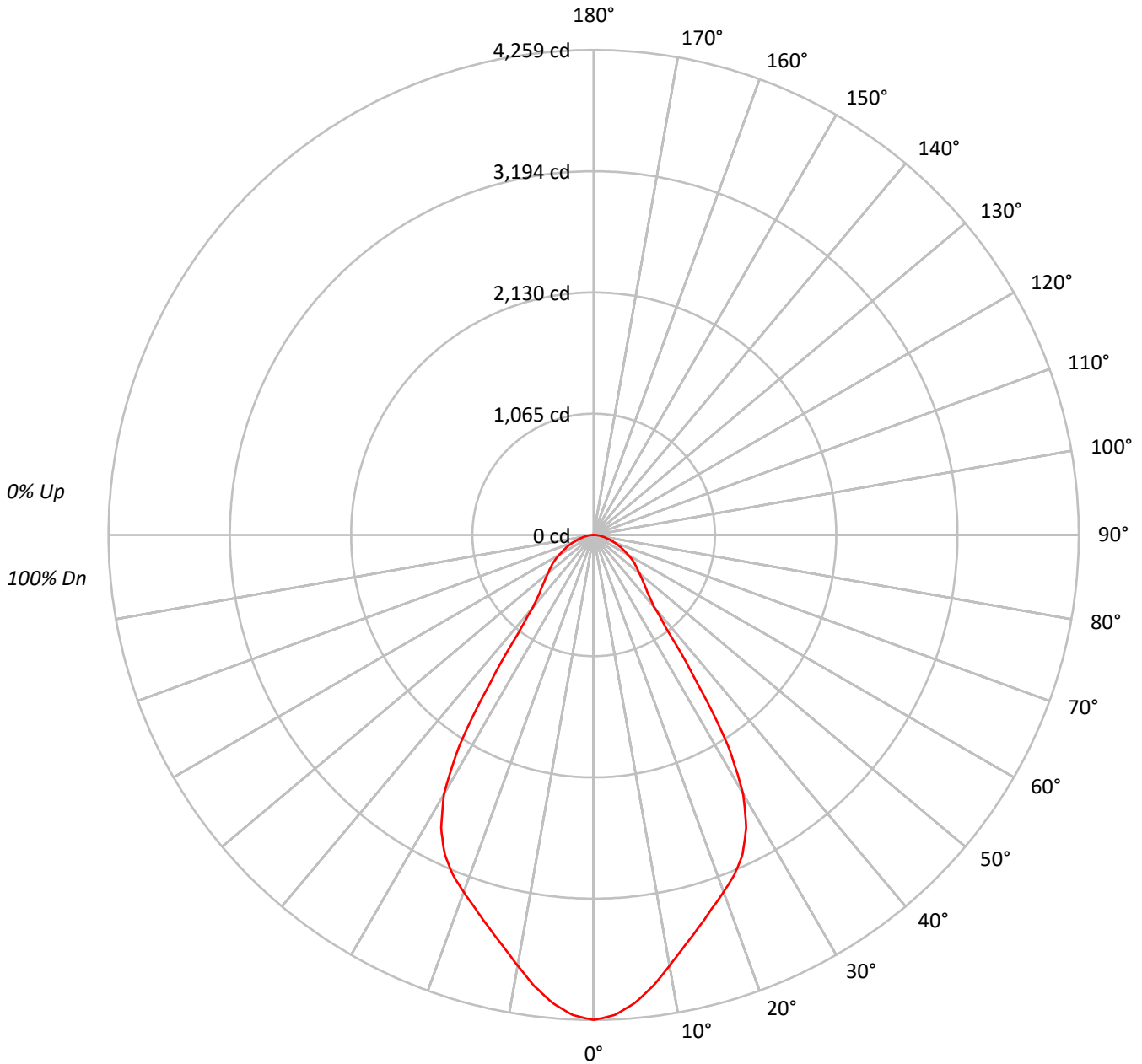
Lumens per Lamp: N/A
Luminaire Lumens: 5136.5 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): 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: P584560
CATALOG NUMBER: HCC8S40D010SL-HM82555840-81MDW

Luminous Intensity Polar Plot





TEST NUMBER: P584560
 CATALOG NUMBER: HCC8S40D010SL-HM82555840-81MDW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									20								
RC	80									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	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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90																											
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80																											
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72																											
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65																											
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59																											
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54																											
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50																											
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46																											
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43																											
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	131338
5°	127763
10°	120229
15°	113829
20°	109492
25°	105267
30°	93489
35°	59538
40°	33230
45°	27831
50°	25123
55°	23682
60°	21604
65°	19482
70°	17202
75°	15286
80°	13549
85°	12242



TEST NUMBER: P584560
 CATALOG NUMBER: HCC8S40D010SL-HM82555840-81MDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.8	7.5
10°-20°	1005.6	19.6
20°-30°	1402.9	27.3
30°-40°	1009.4	19.7
40°-50°	500.2	9.7
50°-60°	391.4	7.6
60°-70°	265.0	5.2
70°-80°	137.6	2.7
80°-90°	39.6	0.8
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°	2793.2	54.4
0°-40°	3802.6	74.0
0°-60°	4694.3	91.4
0°-90°	5136.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5136.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4259	
5°	4128	385
15°	3566	1006
25°	3094	1403
35°	1582	1009
45°	638	500
55°	440	391
65°	267	265
75°	128	138
85°	35	40
90°	0	



TEST NUMBER: P584560
CATALOG NUMBER: HCC8S40D010SL-HM82555840-81MDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	4259.2
2.5°	4221.2
5°	4127.5
7.5°	3995.7
10°	3839.7
12.5°	3693.9
15°	3565.6
17.5°	3444.2
20°	3336.6
22.5°	3229.2
25°	3093.9
27.5°	2899.7
30°	2625.6
32.5°	2195.5
35°	1581.6
37.5°	1078.7
40°	825.5
42.5°	711.0
45°	638.2
47.5°	575.7
50°	523.7
52.5°	478.6
55°	440.5
57.5°	395.4
60°	350.3
62.5°	305.2
65°	267.0
67.5°	229.0
70°	190.8
72.5°	159.6
75°	128.3
77.5°	100.6
80°	76.3
82.5°	55.5
85°	34.6
87.5°	17.4
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)