

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: P585206

Luminaire Tested: **HCC8S80D010BZ-HM86080830-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585206
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: HCC8S80D010BZ-HM86080830-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

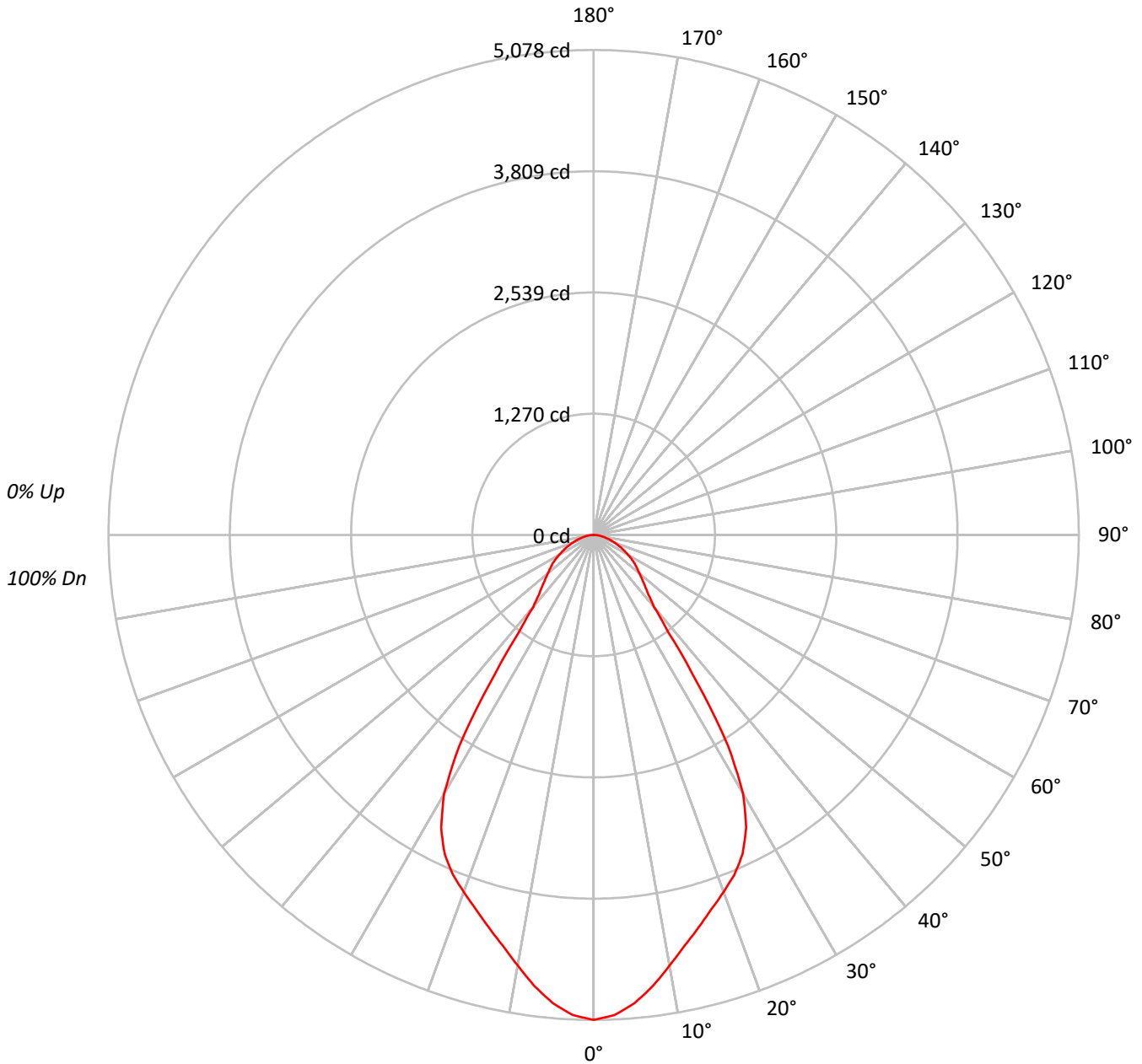
Lumens per Lamp: N/A
Luminaire Lumens: 6123.2 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 70
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: P585206
CATALOG NUMBER: HCC8S80D010BZ-HM86080830-81MDW

Luminous Intensity Polar Plot





TEST NUMBER: P585206
 CATALOG NUMBER: HCC8S80D010BZ-HM86080830-81MDW

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	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°	156571
5°	152303
10°	143321
15°	135697
20°	130529
25°	125488
30°	111449
35°	70974
40°	39610
45°	33178
50°	29949
55°	28230
60°	25754
65°	23232
70°	20511
75°	18229
80°	16160
85°	14648



TEST NUMBER: P585206
 CATALOG NUMBER: HCC8S80D010BZ-HM86080830-81MDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	458.7	7.5
10°-20°	1198.8	19.6
20°-30°	1672.3	27.3
30°-40°	1203.3	19.7
40°-50°	596.3	9.7
50°-60°	466.6	7.6
60°-70°	315.9	5.2
70°-80°	164.1	2.7
80°-90°	47.3	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°	3329.8	54.4
0°-40°	4533.1	74.0
0°-60°	5596.0	91.4
0°-90°	6123.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6123.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5078	
5°	4920	459
15°	4251	1199
25°	3688	1672
35°	1885	1203
45°	761	596
55°	525	467
65°	318	316
75°	153	164
85°	41	47
90°	0	



TEST NUMBER: P585206
CATALOG NUMBER: HCC8S80D010BZ-HM86080830-81MDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	5077.5
2.5°	5032.0
5°	4920.3
7.5°	4763.3
10°	4577.2
12.5°	4403.5
15°	4250.6
17.5°	4105.9
20°	3977.7
22.5°	3849.5
25°	3688.2
27.5°	3456.7
30°	3130.0
32.5°	2617.3
35°	1885.4
37.5°	1285.9
40°	984.0
42.5°	847.6
45°	760.8
47.5°	686.4
50°	624.3
52.5°	570.6
55°	525.1
57.5°	471.3
60°	417.6
62.5°	363.8
65°	318.4
67.5°	272.9
70°	227.5
72.5°	190.2
75°	153.0
77.5°	119.9
80°	91.0
82.5°	66.1
85°	41.4
87.5°	20.7
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)