

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: P585210

Luminaire Tested: **HCC8W80D010MB-HM86080830-81PSMDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585210
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W80D010MB-HM86080830-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

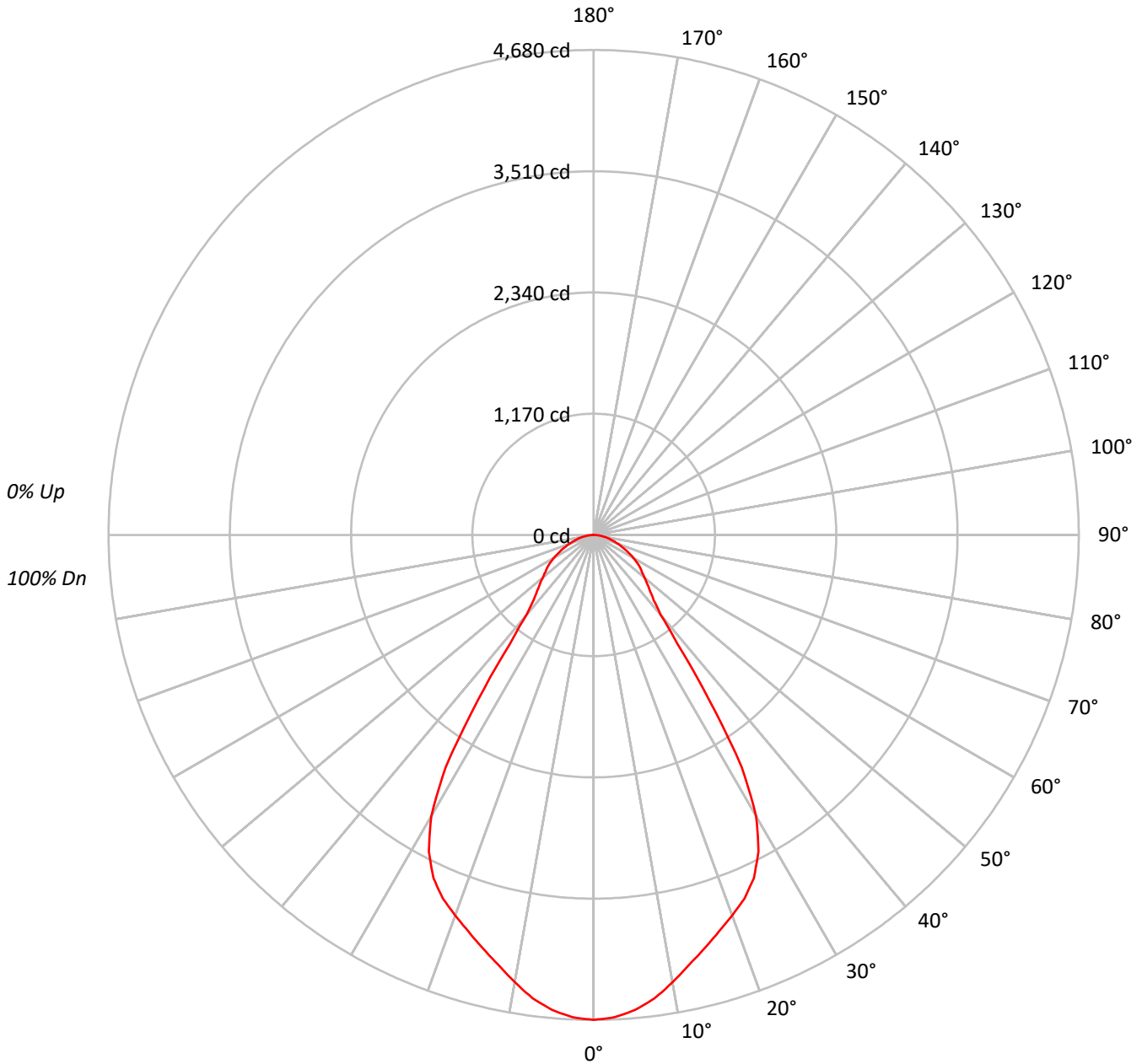
Lumens per Lamp: N/A
Luminaire Lumens: 6148.0 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P585210
CATALOG NUMBER: HCC8W80D010MB-HM86080830-81PSMDW

Luminous Intensity Polar Plot





TEST NUMBER: P585210
 CATALOG NUMBER: HCC8W80D010MB-HM86080830-81PSMDW

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			
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79			
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	144314
5°	142432
10°	137219
15°	131850
20°	128203
25°	124345
30°	111581
35°	73146
40°	40439
45°	33714
50°	30741
55°	29343
60°	27278
65°	24735
70°	22360
75°	20207
80°	18344
85°	17549



TEST NUMBER: P585210
 CATALOG NUMBER: HCC8W80D010MB-HM86080830-81PSMDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.3	7.0
10°-20°	1165.2	19.0
20°-30°	1658.3	27.0
30°-40°	1227.3	20.0
40°-50°	607.9	9.9
50°-60°	485.2	7.9
60°-70°	336.8	5.5
70°-80°	181.5	3.0
80°-90°	53.4	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°	3255.8	53.0
0°-40°	4483.2	72.9
0°-60°	5576.2	90.7
0°-90°	6148.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6148.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4680	
5°	4601	432
15°	4130	1165
25°	3655	1658
35°	1943	1227
45°	773	608
55°	546	485
65°	339	337
75°	170	182
85°	50	53
90°	0	



TEST NUMBER: P585210
CATALOG NUMBER: HCC8W80D010MB-HM86080830-81PSMDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	4680.0
2.5°	4659.3
5°	4601.4
7.5°	4510.5
10°	4382.3
12.5°	4250.0
15°	4130.1
17.5°	4014.4
20°	3906.8
22.5°	3799.3
25°	3654.6
27.5°	3443.8
30°	3133.7
32.5°	2658.4
35°	1943.1
37.5°	1327.0
40°	1004.6
42.5°	859.9
45°	773.1
47.5°	702.8
50°	640.8
52.5°	587.0
55°	545.8
57.5°	496.2
60°	442.3
62.5°	388.6
65°	339.0
67.5°	289.4
70°	248.0
72.5°	206.8
75°	169.6
77.5°	136.4
80°	103.3
82.5°	74.4
85°	49.6
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)