

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: P585227

Luminaire Tested: **HCC8S80D010BZ-HM86080835-81PSMDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585227
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: HCC8S80D010BZ-HM86080835-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

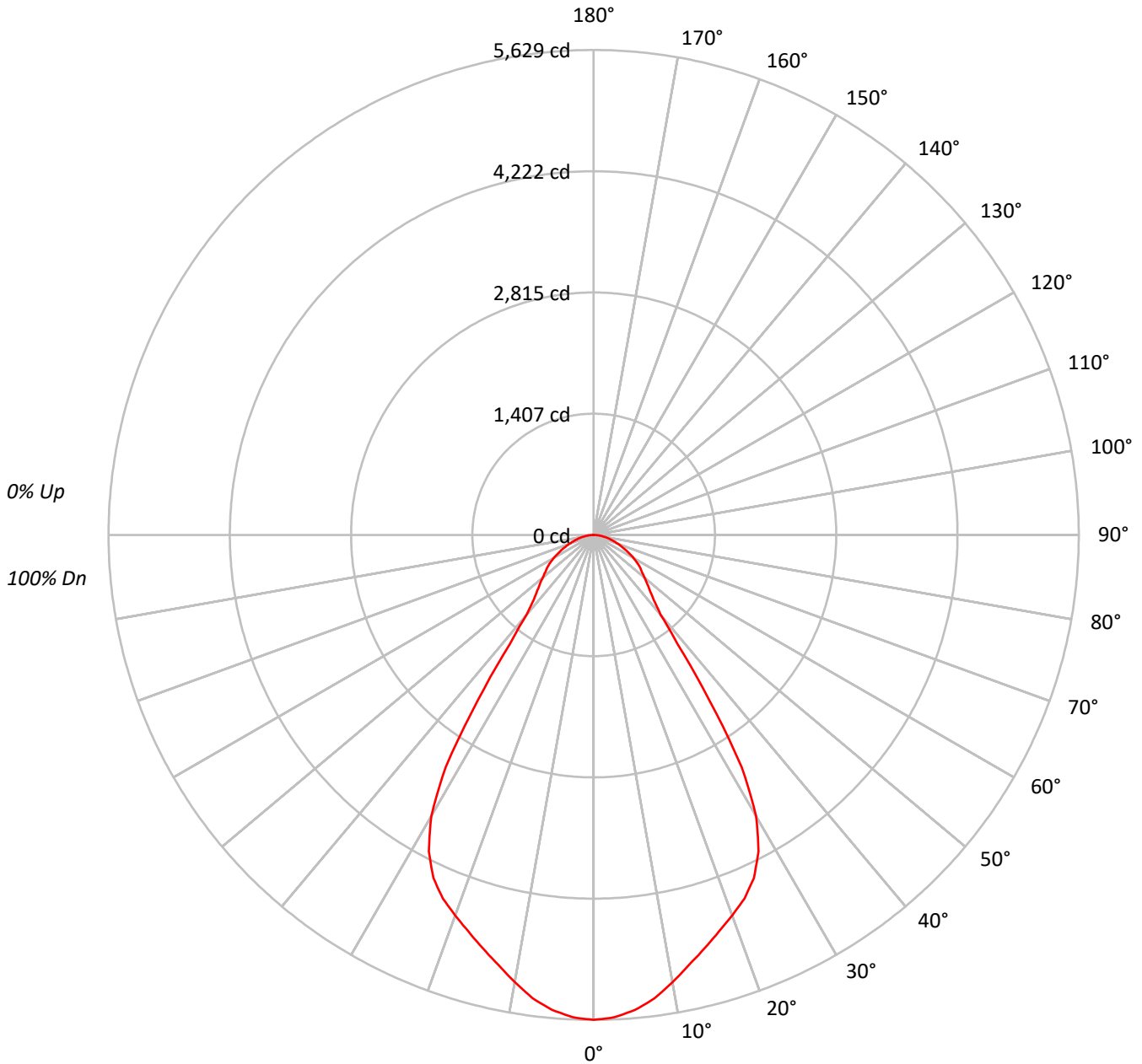
Lumens per Lamp: N/A
Luminaire Lumens: 7394.3 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P585227
CATALOG NUMBER: HCC8S80D010BZ-HM86080835-81PSMDW

Luminous Intensity Polar Plot





TEST NUMBER: P585227
 CATALOG NUMBER: HCC8S80D010BZ-HM86080835-81PSMDW

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	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°	173568
5°	171306
10°	165036
15°	158580
20°	154196
25°	149556
30°	134202
35°	87974
40°	48639
45°	40548
50°	36973
55°	35284
60°	32816
65°	29748
70°	26895
75°	24293
80°	22073
85°	21122



TEST NUMBER: P585227
 CATALOG NUMBER: HCC8S80D010BZ-HM86080835-81PSMDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	520.0	7.0
10°-20°	1401.5	19.0
20°-30°	1994.5	27.0
30°-40°	1476.1	20.0
40°-50°	731.1	9.9
50°-60°	583.5	7.9
60°-70°	405.1	5.5
70°-80°	218.3	3.0
80°-90°	64.3	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°	3915.9	53.0
0°-40°	5392.1	72.9
0°-60°	6706.7	90.7
0°-90°	7394.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7394.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5629	
5°	5534	520
15°	4967	1401
25°	4396	1994
35°	2337	1476
45°	930	731
55°	656	583
65°	408	405
75°	204	218
85°	60	64
90°	0	



TEST NUMBER: P585227

CATALOG NUMBER: HCC8S80D010BZ-HM86080835-81PSMDW

CANDELA DISTRIBUTION (FULL):

0°	
0°	5628.7
2.5°	5603.9
5°	5534.2
7.5°	5424.8
10°	5270.7
12.5°	5111.6
15°	4967.4
17.5°	4828.2
20°	4698.9
22.5°	4569.6
25°	4395.6
27.5°	4142.0
30°	3769.0
32.5°	3197.2
35°	2337.0
37.5°	1596.1
40°	1208.3
42.5°	1034.3
45°	929.8
47.5°	845.3
50°	770.7
52.5°	706.0
55°	656.3
57.5°	596.6
60°	532.1
62.5°	467.4
65°	407.7
67.5°	348.0
70°	298.3
72.5°	248.6
75°	203.9
77.5°	164.1
80°	124.3
82.5°	89.5
85°	59.7
87.5°	24.9
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)