

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: P593900

Luminaire Tested: **HCC8W80D010BZ-HM86080850-81PSMDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593900
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: HCC8W80D010BZ-HM86080850-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

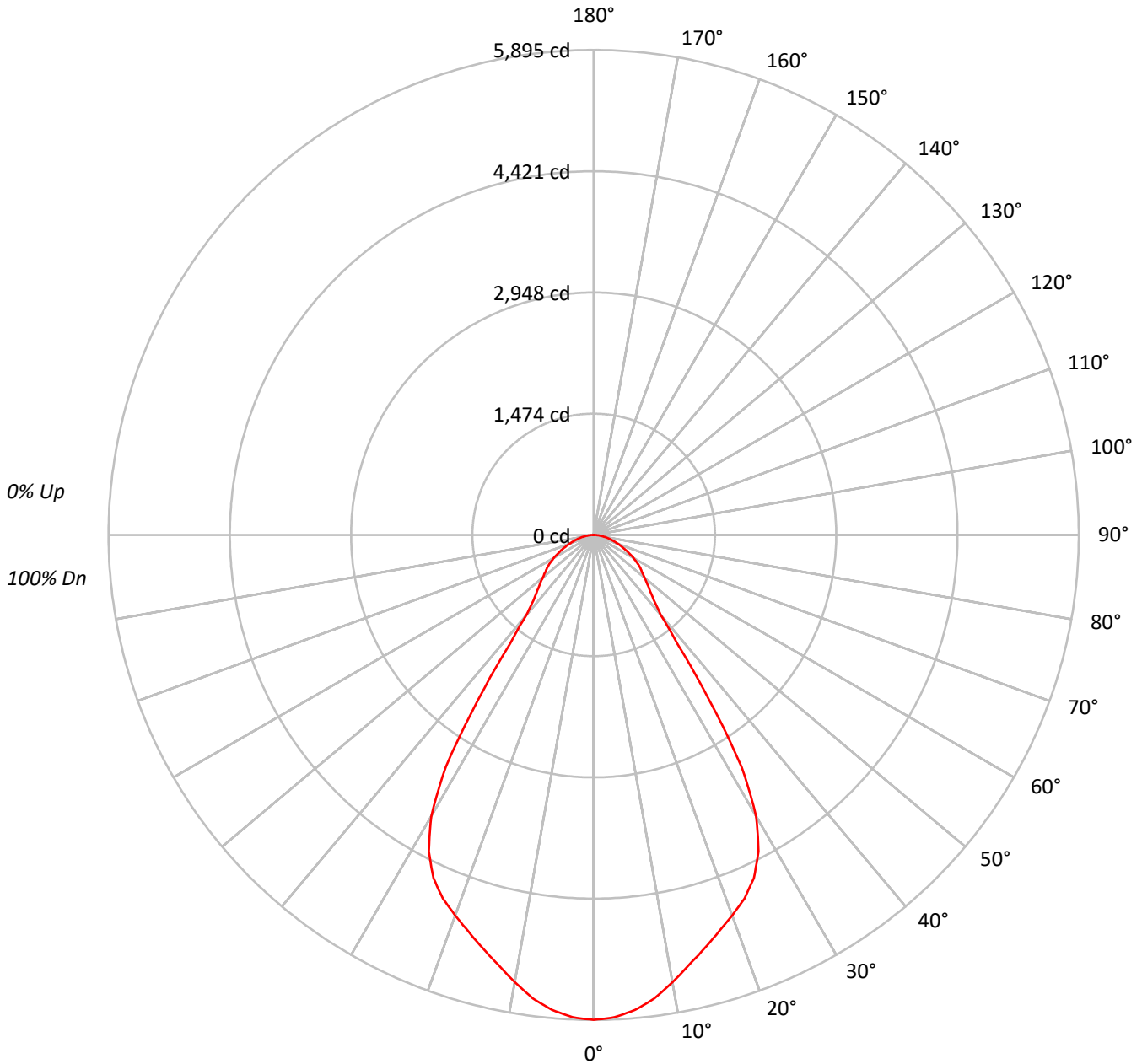
Lumens per Lamp: N/A
Luminaire Lumens: 7743.7 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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: P593900
CATALOG NUMBER: HCC8W80D010BZ-HM86080850-81PSMDW

Luminous Intensity Polar Plot





TEST NUMBER: P593900
 CATALOG NUMBER: HCC8W80D010BZ-HM86080850-81PSMDW

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	181771
5°	179404
10°	172833
15°	166072
20°	161481
25°	156620
30°	140543
35°	92130
40°	50933
45°	42467
50°	38719
55°	36956
60°	34364
65°	31156
70°	28175
75°	25437
80°	23121
85°	22113



TEST NUMBER: P593900
 CATALOG NUMBER: HCC8W80D010BZ-HM86080850-81PSMDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	544.6	7.0
10°-20°	1467.7	19.0
20°-30°	2088.7	27.0
30°-40°	1545.9	20.0
40°-50°	765.7	9.9
50°-60°	611.1	7.9
60°-70°	424.2	5.5
70°-80°	228.6	3.0
80°-90°	67.3	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°	4100.9	53.0
0°-40°	5646.8	72.9
0°-60°	7023.6	90.7
0°-90°	7743.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7743.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5895	
5°	5796	545
15°	5202	1468
25°	4603	2089
35°	2447	1546
45°	974	766
55°	687	611
65°	427	424
75°	214	229
85°	62	67
90°	0	



TEST NUMBER: P593900
CATALOG NUMBER: HCC8W80D010BZ-HM86080850-81PSMDW

CANDELA DISTRIBUTION (FULL):

0°	
0°	5894.7
2.5°	5868.7
5°	5795.8
7.5°	5681.2
10°	5519.7
12.5°	5353.1
15°	5202.1
17.5°	5056.3
20°	4920.9
22.5°	4785.5
25°	4603.2
27.5°	4337.7
30°	3947.1
32.5°	3348.3
35°	2447.4
37.5°	1671.5
40°	1265.3
42.5°	1083.2
45°	973.8
47.5°	885.2
50°	807.1
52.5°	739.4
55°	687.4
57.5°	624.8
60°	557.2
62.5°	489.5
65°	427.0
67.5°	364.5
70°	312.5
72.5°	260.4
75°	213.5
77.5°	171.8
80°	130.2
82.5°	93.7
85°	62.5
87.5°	26.0
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)