

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: P593914

Luminaire Tested: **HCC8S80D010BZ-HM86080950-81WDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593914
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8S80D010BZ-HM86080950-81WDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

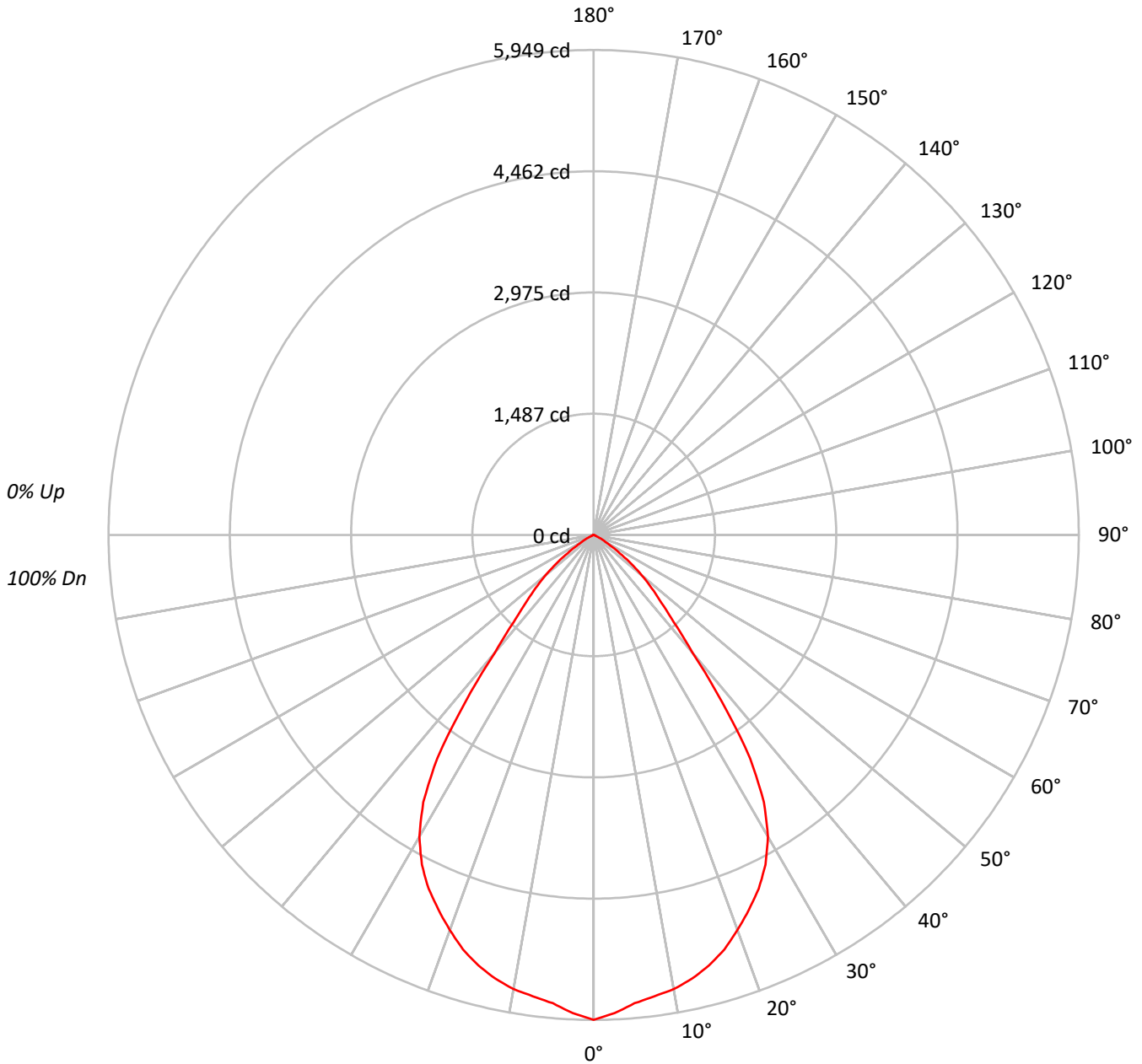
Lumens per Lamp: N/A
Luminaire Lumens: 7646.1 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 70
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: P593914
CATALOG NUMBER: HCC8S80D010BZ-HM86080950-81WDC

Luminous Intensity Polar Plot





TEST NUMBER: P593914
 CATALOG NUMBER: HCC8S80D010BZ-HM86080950-81WDC

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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92				
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84				
3	100	93	87	83	98	91	86	82	89	84	81	86	83	79	84	81	78	77				
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	71	70				
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64				
6	83	73	66	62	82	72	66	61	71	65	61	69	64	61	68	64	60	59				
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	63	59	55	54				
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50				
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46				
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	183442
5°	178509
10°	177151
15°	174513
20°	169229
25°	162918
30°	152183
35°	125939
40°	76040
45°	51215
50°	36905
55°	21042
60°	9263
65°	3320
70°	1235
75°	536
80°	0
85°	0



TEST NUMBER: P593914
 CATALOG NUMBER: HCC8S80D010BZ-HM86080950-81WDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	547.9	7.2
10°-20°	1536.3	20.1
20°-30°	2191.5	28.7
30°-40°	1995.6	26.1
40°-50°	941.4	12.3
50°-60°	370.2	4.8
60°-70°	59.0	0.8
70°-80°	4.1	0.1
80°-90°	0.0	0.0
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°	4275.7	55.9
0°-40°	6271.3	82.0
0°-60°	7583.0	99.2
0°-90°	7646.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7646.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5949	
5°	5767	548
15°	5466	1536
25°	4788	2192
35°	3346	1996
45°	1174	941
55°	391	370
65°	46	59
75°	4	4
85°	0	0
90°	0	



TEST NUMBER: P593914
CATALOG NUMBER: HCC8S80D010BZ-HM86080950-81WDC

CANDELA DISTRIBUTION (FULL):

0°	
0°	5948.9
2.5°	5871.6
5°	5766.9
7.5°	5707.8
10°	5657.6
12.5°	5575.7
15°	5466.5
17.5°	5329.9
20°	5157.0
22.5°	4974.9
25°	4788.3
27.5°	4560.8
30°	4274.0
32.5°	3887.1
35°	3345.5
37.5°	2585.4
40°	1889.0
42.5°	1452.0
45°	1174.4
47.5°	965.0
50°	769.3
52.5°	578.1
55°	391.4
57.5°	245.8
60°	150.2
62.5°	91.1
65°	45.5
67.5°	22.7
70°	13.7
72.5°	4.5
75°	4.5
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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)