

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: P593602

Luminaire Tested: **HCC8S20D010SL-HM80520950-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593602
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8S20D010SL-HM80520950-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

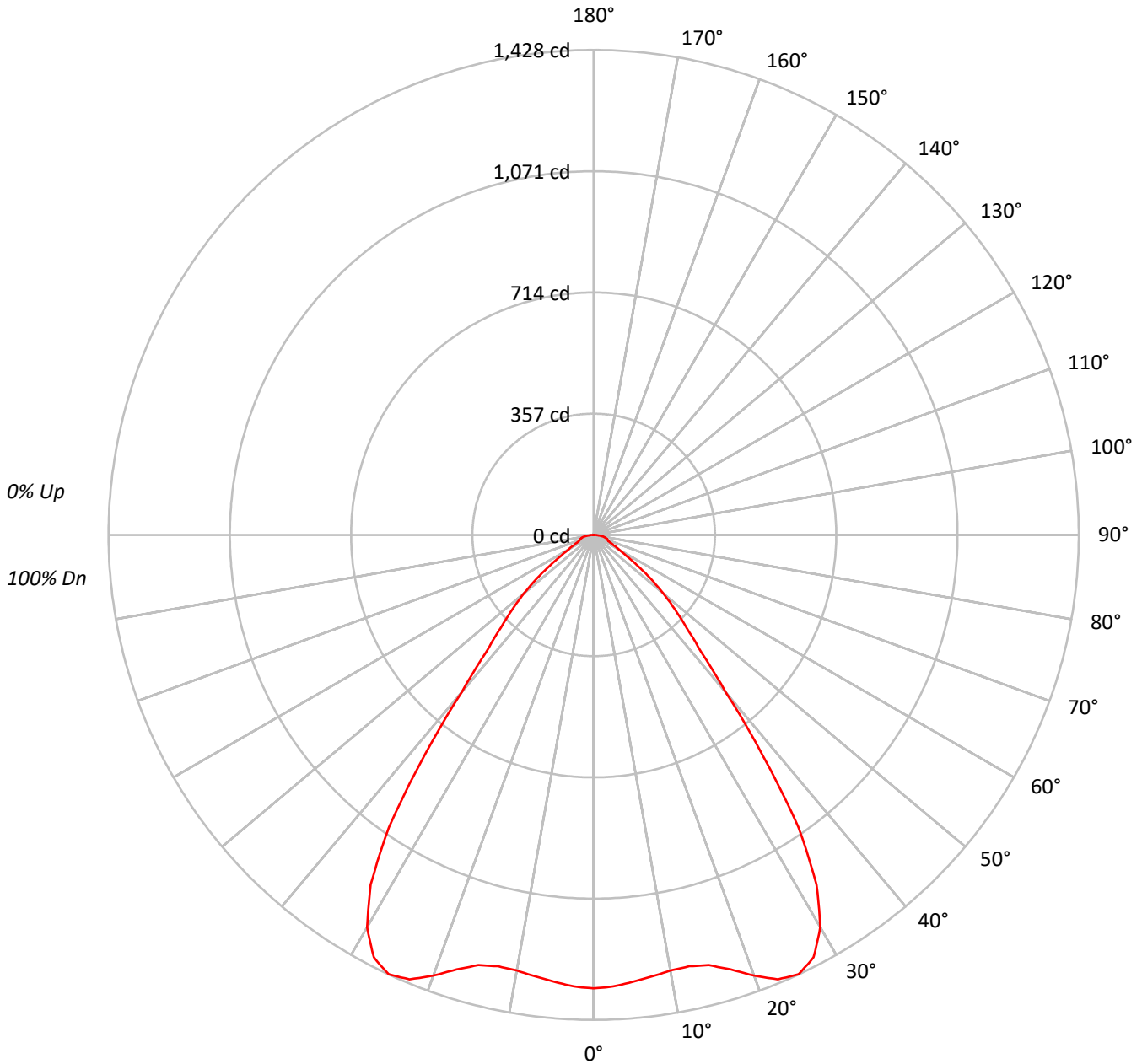
Lumens per Lamp: N/A
Luminaire Lumens: 2344.4 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 20
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: P593602
CATALOG NUMBER: HCC8S20D010SL-HM80520950-81WDWB

Luminous Intensity Polar Plot





TEST NUMBER: P593602
 CATALOG NUMBER: HCC8S20D010SL-HM80520950-81WDWB

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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90		
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73		
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65		
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59		
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54		
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49		
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45		
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41		
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	41173
5°	40890
10°	40781
15°	41856
20°	45311
25°	48576
30°	47492
35°	39549
40°	24293
45°	16824
50°	12838
55°	8419
60°	5273
65°	3947
70°	3976
75°	4575
80°	5061
85°	4529



TEST NUMBER: P593602
 CATALOG NUMBER: HCC8S20D010SL-HM80520950-81WDWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.5	5.4
10°-20°	376.4	16.1
20°-30°	647.9	27.6
30°-40°	627.7	26.8
40°-50°	309.2	13.2
50°-60°	145.9	6.2
60°-70°	57.5	2.5
70°-80°	39.7	1.7
80°-90°	14.7	0.6
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°	1149.8	49.0
0°-40°	1777.5	75.8
0°-60°	2232.5	95.2
0°-90°	2344.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2344.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1335	
5°	1321	126
15°	1311	376
25°	1428	648
35°	1051	628
45°	386	309
55°	157	146
65°	54	57
75°	38	40
85°	13	15
90°	0	



TEST NUMBER: P593602
CATALOG NUMBER: HCC8S20D010SL-HM80520950-81WDWB

CANDELA DISTRIBUTION (FULL):

	0°
0°	1335.2
2.5°	1330.9
5°	1321.0
7.5°	1311.1
10°	1302.4
12.5°	1301.0
15°	1311.1
17.5°	1341.0
20°	1380.8
22.5°	1416.4
25°	1427.7
27.5°	1402.1
30°	1333.8
32.5°	1221.4
35°	1050.6
37.5°	815.7
40°	603.5
42.5°	468.3
45°	385.8
47.5°	324.6
50°	267.6
52.5°	210.6
55°	156.6
57.5°	113.8
60°	85.5
62.5°	66.9
65°	54.1
67.5°	46.9
70°	44.1
72.5°	41.3
75°	38.4
77.5°	34.2
80°	28.5
82.5°	21.4
85°	12.8
87.5°	5.7
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)