

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: P580094

Luminaire Tested: **HCC4S20D010SL-HM40525940-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580094
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S20D010SL-HM40525940-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

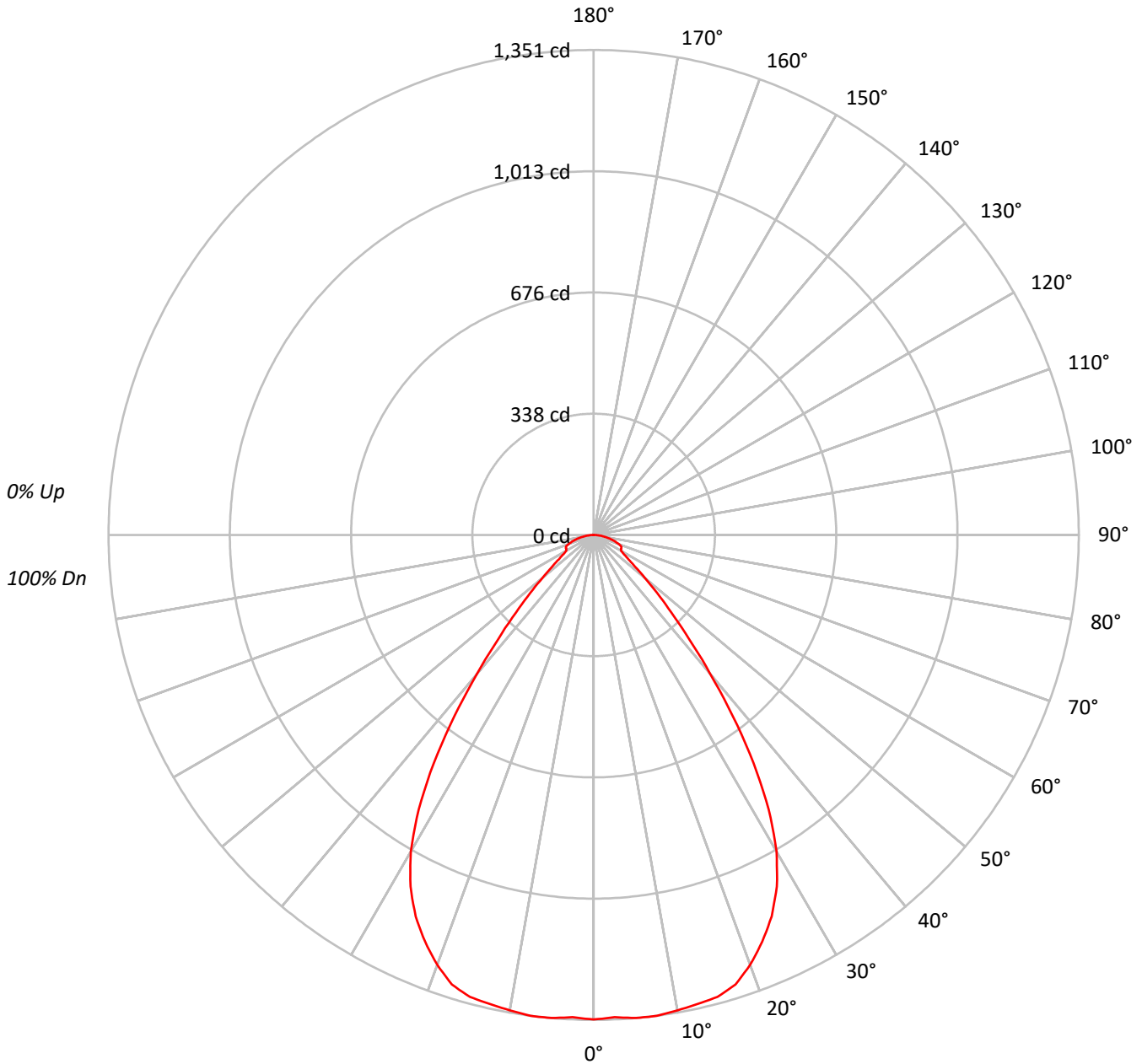
Lumens per Lamp: N/A
Luminaire Lumens: 2027.9 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580094
CATALOG NUMBER: HCC4S20D010SL-HM40525940-41WDWB

Luminous Intensity Polar Plot





TEST NUMBER: P580094
 CATALOG NUMBER: HCC4S20D010SL-HM40525940-41WDWB

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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59			
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54			
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49			
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46			
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°	166492
5°	167289
10°	168422
15°	170105
20°	167267
25°	159587
30°	144991
35°	116938
40°	81152
45°	53256
50°	35692
55°	25397
60°	21709
65°	24954
70°	26723
75°	25735
80°	23227
85°	21228



TEST NUMBER: P580094
 CATALOG NUMBER: HCC4S20D010SL-HM40525940-41WDWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.8	6.3
10°-20°	374.2	18.5
20°-30°	534.7	26.4
30°-40°	477.6	23.6
40°-50°	245.0	12.1
50°-60°	111.4	5.5
60°-70°	83.1	4.1
70°-80°	56.5	2.8
80°-90°	16.7	0.8
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°	1037.7	51.2
0°-40°	1515.3	74.7
0°-60°	1871.6	92.3
0°-90°	2027.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2027.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1350	
5°	1351	129
15°	1332	374
25°	1173	535
35°	777	478
45°	305	245
55°	118	111
65°	86	83
75°	54	57
85°	15	17
90°	0	



TEST NUMBER: P580094

CATALOG NUMBER: HCC4S20D010SL-HM40525940-41WDWB

CANDELA DISTRIBUTION (FULL):

	0°
0°	1349.8
2.5°	1344.7
5°	1351.1
7.5°	1351.1
10°	1344.7
12.5°	1338.4
15°	1332.1
17.5°	1313.3
20°	1274.3
22.5°	1226.6
25°	1172.6
27.5°	1104.7
30°	1018.0
32.5°	907.4
35°	776.6
37.5°	637.2
40°	504.0
42.5°	393.3
45°	305.3
47.5°	238.8
50°	186.0
52.5°	145.8
55°	118.1
57.5°	99.3
60°	88.0
62.5°	85.5
65°	85.5
67.5°	82.9
70°	74.1
72.5°	64.1
75°	54.0
77.5°	42.8
80°	32.7
82.5°	23.9
85°	15.0
87.5°	6.3
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)