

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: P580015

Luminaire Tested: **HCC4S20D010SL-HM40525835-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580015
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S20D010SL-HM40525835-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

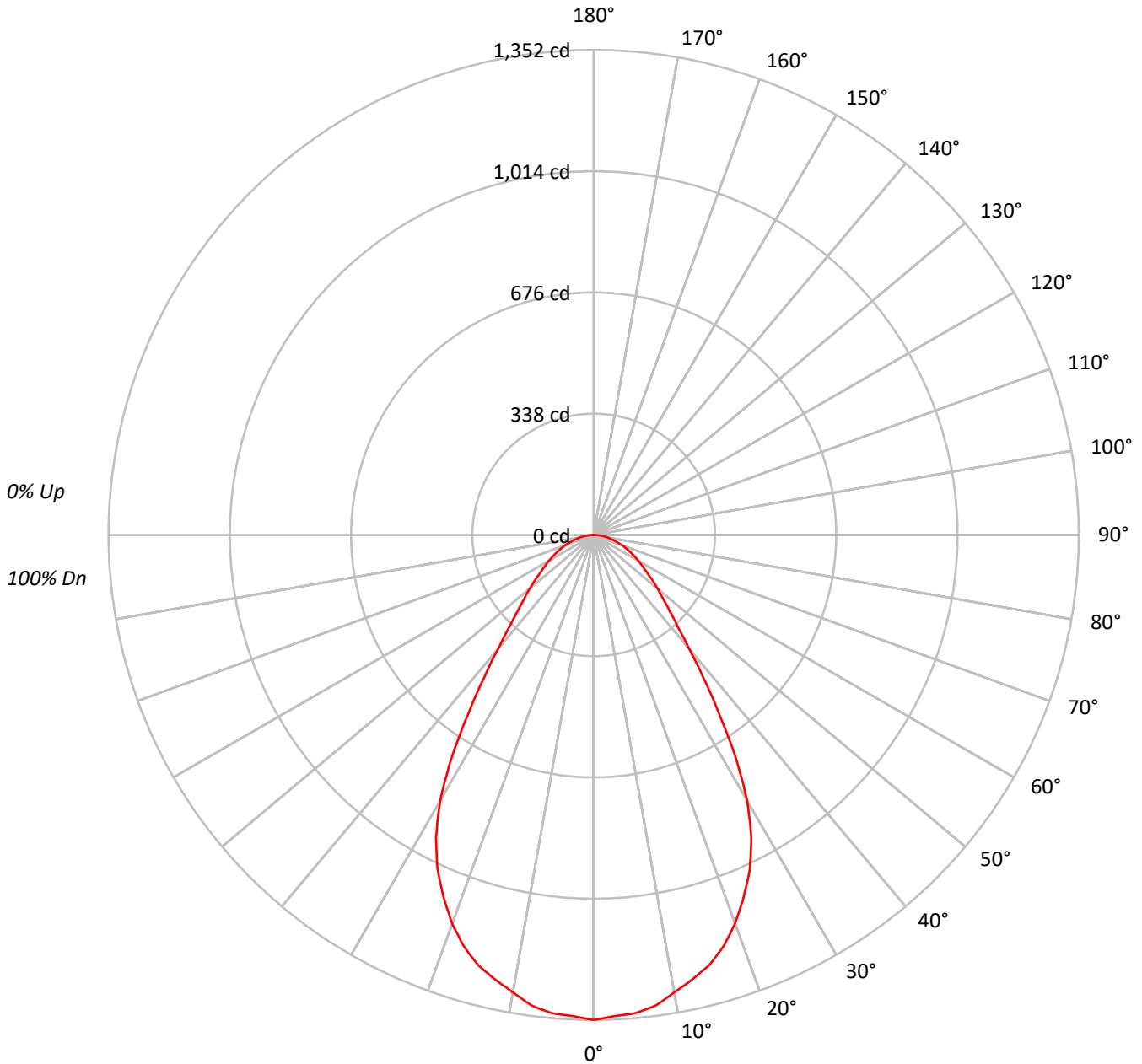
Lumens per Lamp: N/A
Luminaire Lumens: 1920.0 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580015
CATALOG NUMBER: HCC4S20D010SL-HM40525835-41PSMDW

Luminous Intensity Polar Plot





TEST NUMBER: P580015
 CATALOG NUMBER: HCC4S20D010SL-HM40525835-41PSMDW

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	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	166763
5°	165716
10°	162197
15°	158612
20°	151279
25°	140044
30°	121804
35°	91988
40°	66677
45°	52104
50°	44557
55°	38536
60°	35474
65°	32484
70°	30366
75°	27832
80°	26069
85°	25050



TEST NUMBER: P580015
 CATALOG NUMBER: HCC4S20D010SL-HM40525835-41PSMDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.4	6.6
10°-20°	347.9	18.1
20°-30°	467.9	24.4
30°-40°	384.7	20.0
40°-50°	236.3	12.3
50°-60°	163.5	8.5
60°-70°	111.4	5.8
70°-80°	62.1	3.2
80°-90°	19.8	1.0
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°	942.2	49.1
0°-40°	1326.9	69.1
0°-60°	1726.7	89.9
0°-90°	1920.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1920.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1352	
5°	1338	126
15°	1242	348
25°	1029	468
35°	611	385
45°	299	236
55°	179	163
65°	111	111
75°	58	62
85°	18	20
90°	0	



TEST NUMBER: P580015
CATALOG NUMBER: HCC4S20D010SL-HM40525835-41PSMDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	1352.0
2.5°	1342.4
5°	1338.4
7.5°	1323.5
10°	1295.0
12.5°	1269.2
15°	1242.1
17.5°	1202.6
20°	1152.5
22.5°	1092.7
25°	1029.0
27.5°	951.6
30°	855.2
32.5°	737.1
35°	610.9
37.5°	502.3
40°	414.1
42.5°	346.2
45°	298.7
47.5°	262.0
50°	232.2
52.5°	205.0
55°	179.2
57.5°	160.1
60°	143.8
62.5°	127.5
65°	111.3
67.5°	97.7
70°	84.2
72.5°	70.5
75°	58.4
77.5°	46.1
80°	36.7
82.5°	27.2
85°	17.7
87.5°	9.5
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)