

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: P580009

Luminaire Tested: **HCC4S20D010BZ-HM40525835-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580009
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: HCC4S20D010BZ-HM40525835-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

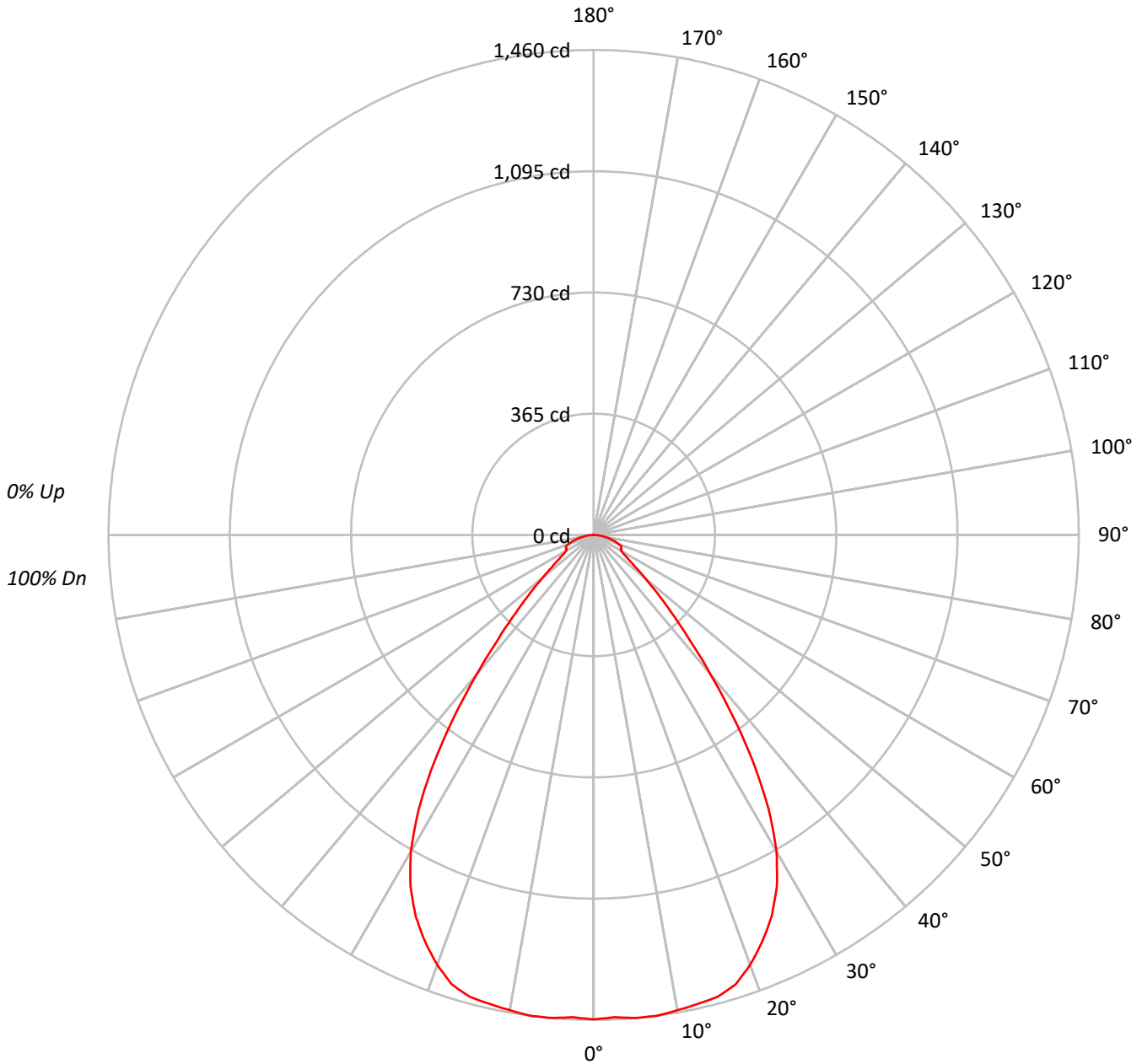
Lumens per Lamp: N/A
Luminaire Lumens: 2191.5 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580009
CATALOG NUMBER: HCC4S20D010BZ-HM40525835-41WDWB

Luminous Intensity Polar Plot





TEST NUMBER: P580009
 CATALOG NUMBER: HCC4S20D010BZ-HM40525835-41WDWB

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			100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			65
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59			59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54			54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49			49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46			46
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°	179900
5°	180760
10°	181998
15°	183832
20°	180760
25°	172448
30°	156684
35°	126379
40°	87689
45°	57564
50°	38570
55°	27461
60°	23460
65°	26939
70°	28923
75°	27832
80°	25074
85°	23068



TEST NUMBER: P580009
 CATALOG NUMBER: HCC4S20D010BZ-HM40525835-41WDWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.1	6.3
10°-20°	404.4	18.5
20°-30°	577.8	26.4
30°-40°	516.2	23.6
40°-50°	264.7	12.1
50°-60°	120.3	5.5
60°-70°	89.7	4.1
70°-80°	61.1	2.8
80°-90°	18.1	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°	1121.3	51.2
0°-40°	1637.5	74.7
0°-60°	2022.6	92.3
0°-90°	2191.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2191.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1458	
5°	1460	139
15°	1440	404
25°	1267	578
35°	839	516
45°	330	265
55°	128	120
65°	92	90
75°	58	61
85°	16	18
90°	0	



TEST NUMBER: P580009
CATALOG NUMBER: HCC4S20D010BZ-HM40525835-41WDWB

CANDELA DISTRIBUTION (FULL):

	0°
0°	1458.5
2.5°	1453.1
5°	1459.9
7.5°	1459.9
10°	1453.1
12.5°	1446.4
15°	1439.6
17.5°	1419.2
20°	1377.1
22.5°	1325.5
25°	1267.1
27.5°	1193.8
30°	1100.1
32.5°	980.6
35°	839.3
37.5°	688.5
40°	544.6
42.5°	425.1
45°	330.0
47.5°	258.1
50°	201.0
52.5°	157.5
55°	127.7
57.5°	107.2
60°	95.1
62.5°	92.3
65°	92.3
67.5°	89.6
70°	80.2
72.5°	69.3
75°	58.4
77.5°	46.2
80°	35.3
82.5°	25.8
85°	16.3
87.5°	6.8
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)