

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: P580058

Luminaire Tested: **HCC4W20D010MB-HM40525930-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580058
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: HCC4W20D010MB-HM40525930-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

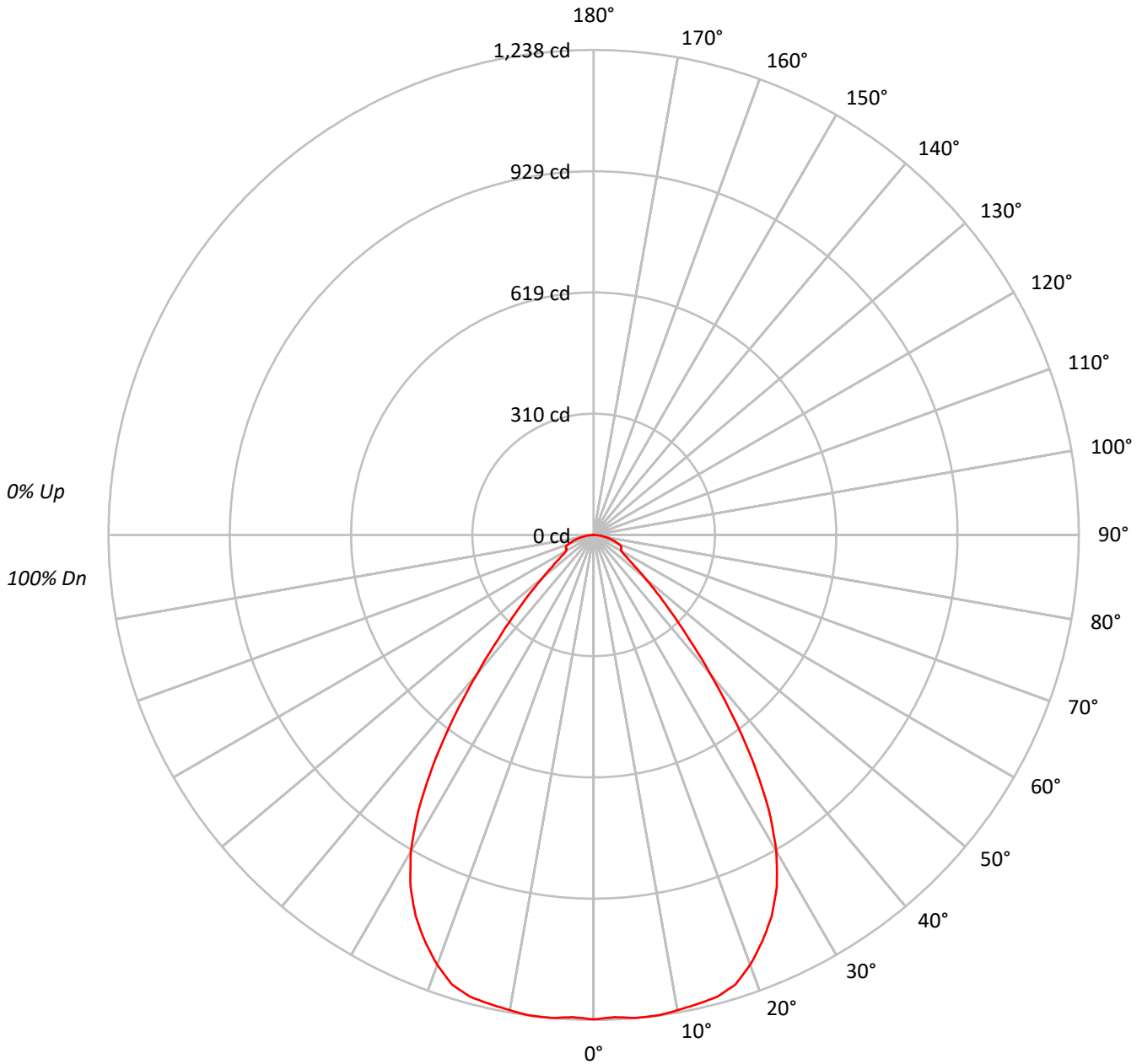
Lumens per Lamp: N/A
Luminaire Lumens: 1857.9 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580058
CATALOG NUMBER: HCC4W20D010MB-HM40525930-41WDWB

Luminous Intensity Polar Plot





TEST NUMBER: P580058

CATALOG NUMBER: HCC4W20D010MB-HM40525930-41WDWB

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°	152529
5°	153248
10°	154306
15°	155854
20°	153248
25°	146209
30°	132828
35°	107151
40°	74341
45°	48807
50°	32698
55°	23290
60°	19883
65°	22853
70°	24487
75°	23638
80°	21239
85°	19530



TEST NUMBER: P580058
 CATALOG NUMBER: HCC4W20D010MB-HM40525930-41WDWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.0	6.3
10°-20°	342.9	18.5
20°-30°	489.9	26.4
30°-40°	437.6	23.6
40°-50°	224.4	12.1
50°-60°	102.0	5.5
60°-70°	76.1	4.1
70°-80°	51.8	2.8
80°-90°	15.3	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°	950.7	51.2
0°-40°	1388.3	74.7
0°-60°	1714.8	92.3
0°-90°	1857.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1857.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1237	
5°	1238	118
15°	1220	343
25°	1074	490
35°	712	438
45°	280	224
55°	108	102
65°	78	76
75°	50	52
85°	14	15
90°	0	



TEST NUMBER: P580058

CATALOG NUMBER: HCC4W20D010MB-HM40525930-41WDWB

CANDELA DISTRIBUTION (FULL):

	0°
0°	1236.6
2.5°	1232.0
5°	1237.7
7.5°	1237.7
10°	1232.0
12.5°	1226.3
15°	1220.5
17.5°	1203.2
20°	1167.5
22.5°	1123.8
25°	1074.3
27.5°	1012.1
30°	932.6
32.5°	831.3
35°	711.6
37.5°	583.8
40°	461.7
42.5°	360.4
45°	279.8
47.5°	218.7
50°	170.4
52.5°	133.5
55°	108.3
57.5°	91.0
60°	80.6
62.5°	78.3
65°	78.3
67.5°	76.0
70°	67.9
72.5°	58.7
75°	49.6
77.5°	39.1
80°	29.9
82.5°	21.9
85°	13.8
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)