

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: P580061

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580061
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W20D010MB-HM40525930-41WDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

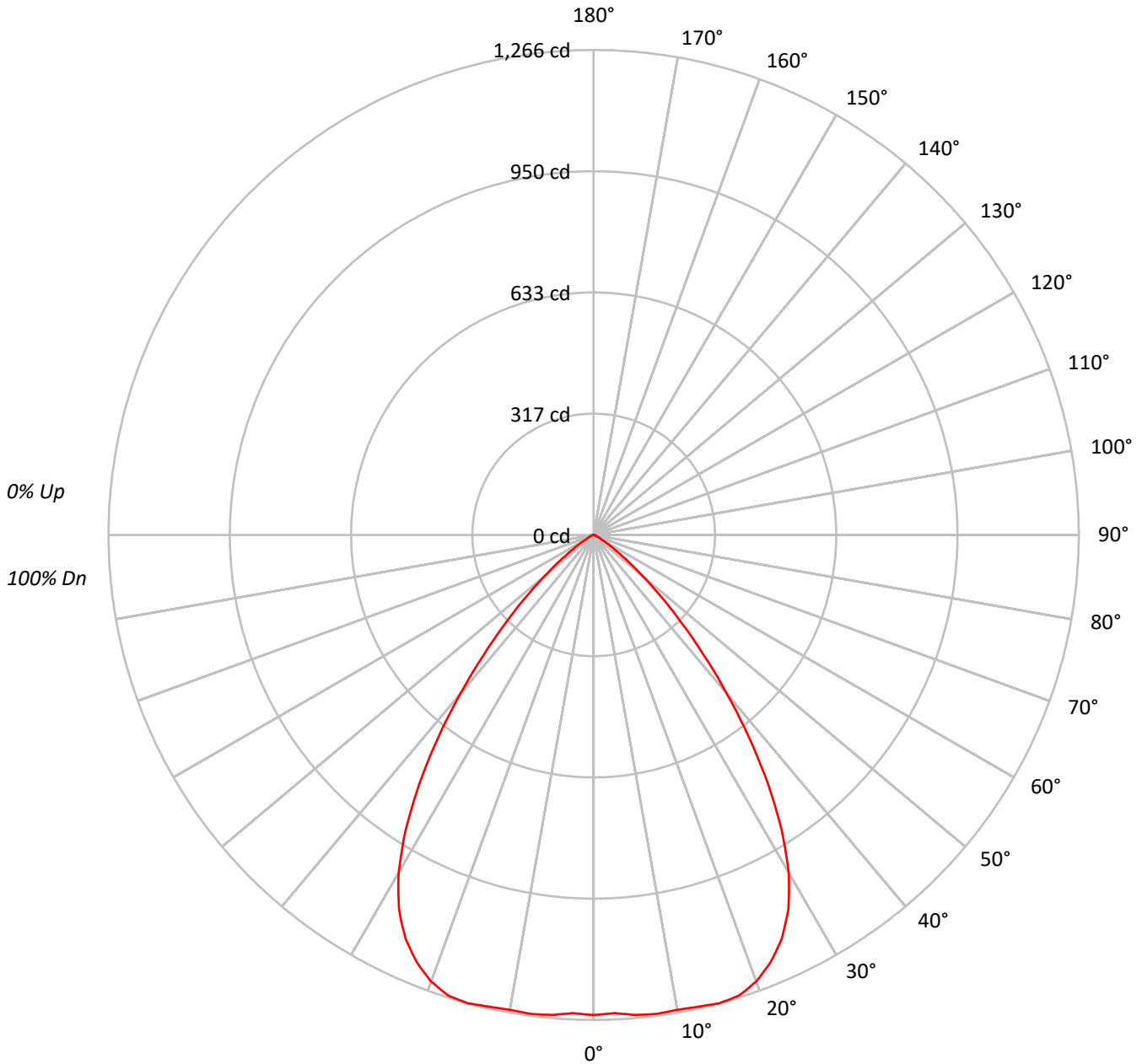
Lumens per Lamp: N/A
Luminaire Lumens: 1838.4 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.11
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580061
CATALOG NUMBER: HCC4W20D010MB-HM40525930-41WDH

Luminous Intensity Polar Plot





TEST NUMBER: P580061

CATALOG NUMBER: HCC4W20D010MB-HM40525930-41WDH

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	100	100
1	113	110	107	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92	92	92	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84	84	84	84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76	76	76	76
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69	69	69	69
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63	63	63	63
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58	58	58	58
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53	53	53	53
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49	49	49	49
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45	45	45	45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42	42	42	42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	154564
5°	155724
10°	157663
15°	161639
20°	162830
25°	158158
30°	145019
35°	119332
40°	86981
45°	56465
50°	31835
55°	15118
60°	5970
65°	3677
70°	2488
75°	1620
80°	781
85°	1557



TEST NUMBER: P580061
 CATALOG NUMBER: HCC4W20D010MB-HM40525930-41WDH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.1	6.5
10°-20°	356.9	19.4
20°-30°	529.3	28.8
30°-40°	488.9	26.6
40°-50°	255.3	13.9
50°-60°	70.0	3.8
60°-70°	13.5	0.7
70°-80°	3.8	0.2
80°-90°	0.7	0.0
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°	1006.3	54.7
0°-40°	1495.2	81.3
0°-60°	1820.4	99.0
0°-90°	1838.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1838.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1253	
5°	1258	120
15°	1266	357
25°	1162	529
35°	792	489
45°	324	255
55°	70	70
65°	13	13
75°	3	4
85°	1	1
90°	0	



TEST NUMBER: P580061
CATALOG NUMBER: HCC4W20D010MB-HM40525930-41WDH

CANDELA DISTRIBUTION (FULL):

	0°
0°	1253.1
2.5°	1249.7
5°	1257.7
7.5°	1261.2
10°	1258.8
12.5°	1261.2
15°	1265.8
17.5°	1261.2
20°	1240.5
22.5°	1207.1
25°	1162.1
27.5°	1101.1
30°	1018.2
32.5°	913.4
35°	792.5
37.5°	665.7
40°	540.2
42.5°	425.0
45°	323.7
47.5°	237.3
50°	165.9
52.5°	110.6
55°	70.3
57.5°	41.4
60°	24.2
62.5°	17.3
65°	12.6
67.5°	9.2
70°	6.9
72.5°	4.6
75°	3.4
77.5°	2.3
80°	1.1
82.5°	1.1
85°	1.1
87.5°	0.0
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)