

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: P580078

Luminaire Tested: **HCC4W20D010MW-HM40525935-41NDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580078
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W20D010MW-HM40525935-41NDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

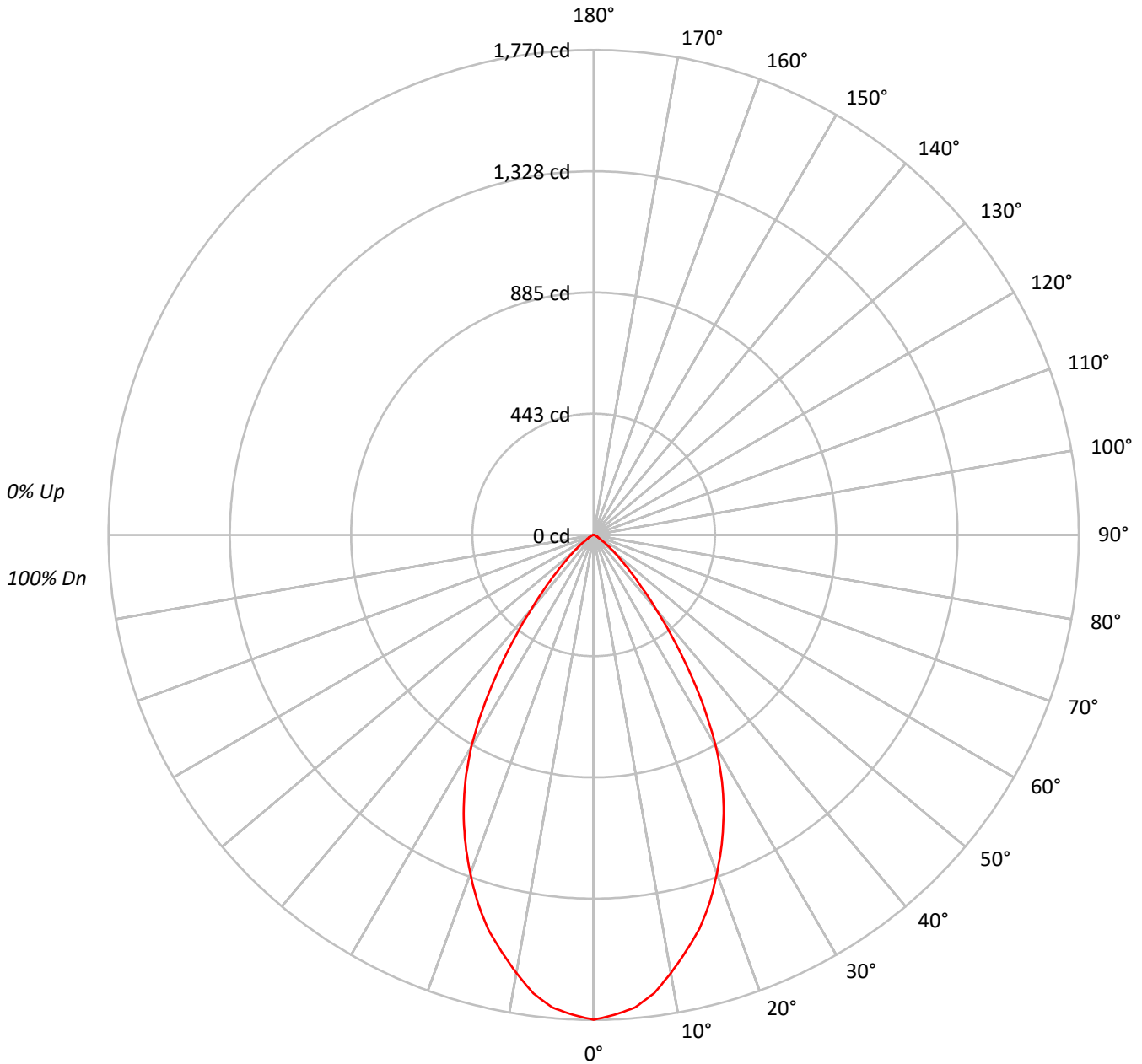
Lumens per Lamp: N/A
Luminaire Lumens: 1683.1 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580078
CATALOG NUMBER: HCC4W20D010MW-HM40525935-41NDH

Luminous Intensity Polar Plot





TEST NUMBER: P580078

CATALOG NUMBER: HCC4W20D010MW-HM40525935-41NDH

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	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93			93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86			86
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79			79
4	96	88	82	78	94	87	81	77	85	80	76	82	79	75	81	77	74	73			73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67			67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	63			63
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58			58
8	77	67	61	57	76	67	61	56	65	60	56	64	59	56	63	59	56	54			54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51			51
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48			48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	218297
5°	214339
10°	203291
15°	190089
20°	172648
25°	152769
30°	127059
35°	91626
40°	57193
45°	32986
50°	18594
55°	8860
60°	5082
65°	3882
70°	2597
75°	1763
80°	1705
85°	1840



TEST NUMBER: P580078
 CATALOG NUMBER: HCC4W20D010MW-HM40525935-41NDH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.8	9.6
10°-20°	415.3	24.7
20°-30°	510.7	30.3
30°-40°	379.3	22.5
40°-50°	154.2	9.2
50°-60°	42.7	2.5
60°-70°	13.3	0.8
70°-80°	4.5	0.3
80°-90°	1.4	0.1
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°	1087.8	64.6
0°-40°	1467.1	87.2
0°-60°	1664.0	98.9
0°-90°	1683.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1683.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1770	
5°	1731	162
15°	1489	415
25°	1122	511
35°	608	379
45°	189	154
55°	41	43
65°	13	13
75°	4	4
85°	1	1
90°	0	



TEST NUMBER: P580078
CATALOG NUMBER: HCC4W20D010MW-HM40525935-41NDH

CANDELA DISTRIBUTION (FULL):

	0°
0°	1769.8
2.5°	1752.8
5°	1731.1
7.5°	1687.4
10°	1623.1
12.5°	1556.5
15°	1488.6
17.5°	1407.4
20°	1315.3
22.5°	1221.9
25°	1122.5
27.5°	1014.6
30°	892.1
32.5°	752.8
35°	608.5
37.5°	472.8
40°	355.2
42.5°	259.5
45°	189.1
47.5°	135.8
50°	96.9
52.5°	66.6
55°	41.2
57.5°	26.7
60°	20.6
62.5°	17.0
65°	13.3
67.5°	9.7
70°	7.2
72.5°	6.1
75°	3.7
77.5°	2.4
80°	2.4
82.5°	1.3
85°	1.3
87.5°	1.3
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)