

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: P580043

Luminaire Tested: **HCC4W20D010SL-HM40525927-41WDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580043
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: HCC4W20D010SL-HM40525927-41WDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

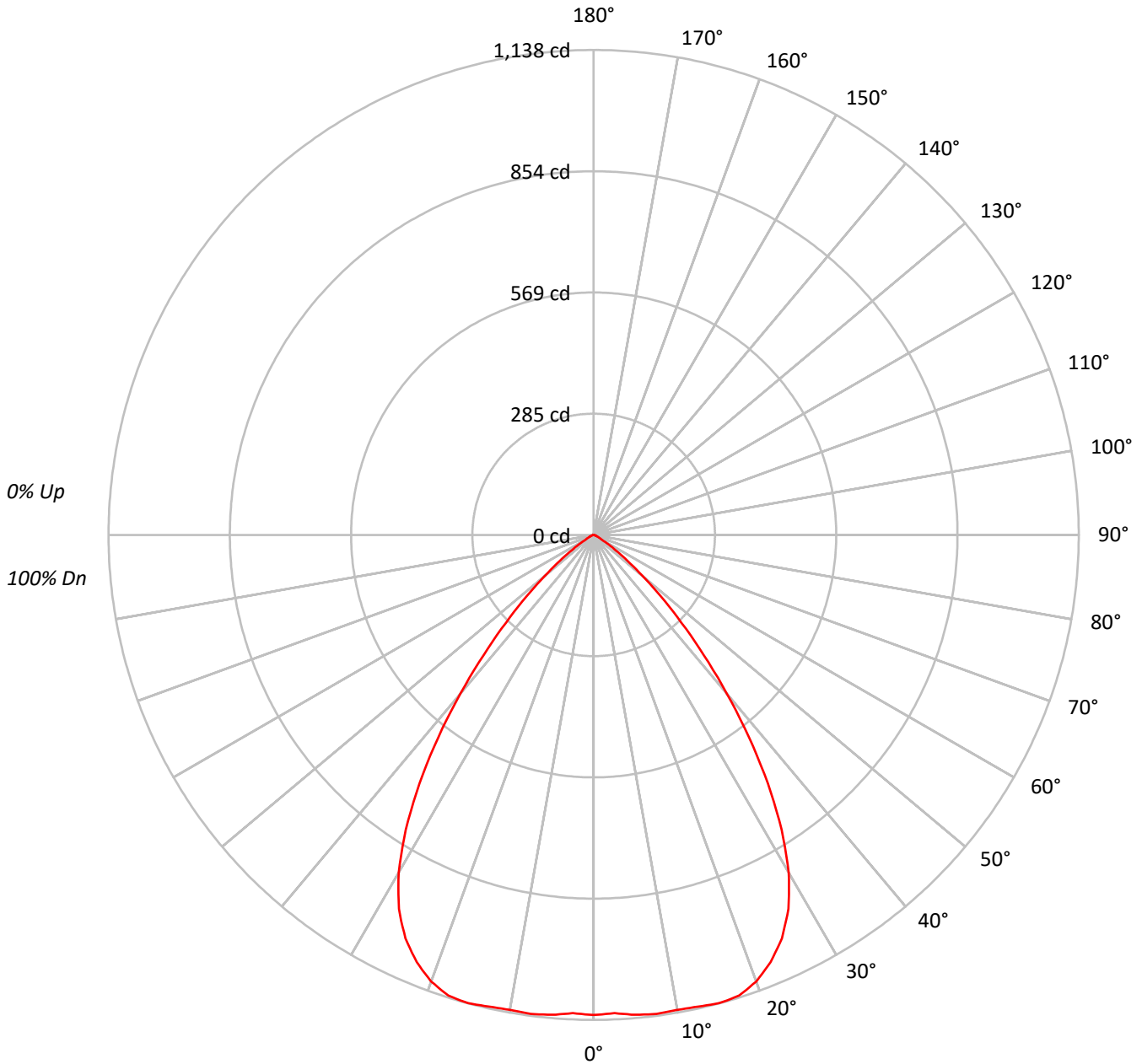
Lumens per Lamp: N/A
Luminaire Lumens: 1652.4 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.11
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580043
CATALOG NUMBER: HCC4W20D010SL-HM40525927-41WDH

Luminous Intensity Polar Plot





TEST NUMBER: P580043

CATALOG NUMBER: HCC4W20D010SL-HM40525927-41WDH

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	107	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92			92																
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84			84																
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76			76																
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69			69																
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63			63																
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58			58																
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53			53																
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49			49																
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45			45																
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42			42																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	138937
5°	139975
10°	141719
15°	145281
20°	146357
25°	142167
30°	130349
35°	107256
40°	78173
45°	50744
50°	28611
55°	13591
60°	5378
65°	3327
70°	2236
75°	1477
80°	710
85°	1415



TEST NUMBER: P580043
 CATALOG NUMBER: HCC4W20D010SL-HM40525927-41WDH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.9	6.5
10°-20°	320.8	19.4
20°-30°	475.7	28.8
30°-40°	439.4	26.6
40°-50°	229.4	13.9
50°-60°	62.9	3.8
60°-70°	12.1	0.7
70°-80°	3.4	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°	904.4	54.7
0°-40°	1343.9	81.3
0°-60°	1636.2	99.0
0°-90°	1652.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1652.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1126	
5°	1130	108
15°	1138	321
25°	1045	476
35°	712	439
45°	291	229
55°	63	63
65°	11	12
75°	3	3
85°	1	1
90°	0	



TEST NUMBER: P580043
CATALOG NUMBER: HCC4W20D010SL-HM40525927-41WDH

CANDELA DISTRIBUTION (FULL):

	0°
0°	1126.4
2.5°	1123.3
5°	1130.5
7.5°	1133.6
10°	1131.5
12.5°	1133.6
15°	1137.7
17.5°	1133.6
20°	1115.0
22.5°	1084.9
25°	1044.6
27.5°	989.6
30°	915.2
32.5°	820.9
35°	712.3
37.5°	598.4
40°	485.5
42.5°	382.0
45°	290.9
47.5°	213.2
50°	149.1
52.5°	99.3
55°	63.2
57.5°	37.3
60°	21.8
62.5°	15.5
65°	11.4
67.5°	8.3
70°	6.2
72.5°	4.1
75°	3.1
77.5°	2.1
80°	1.0
82.5°	1.0
85°	1.0
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)