

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: P580081

Luminaire Tested: **HCC4S20D010BZ-HM40525935-41MDC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580081
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S20D010BZ-HM40525935-41MDC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

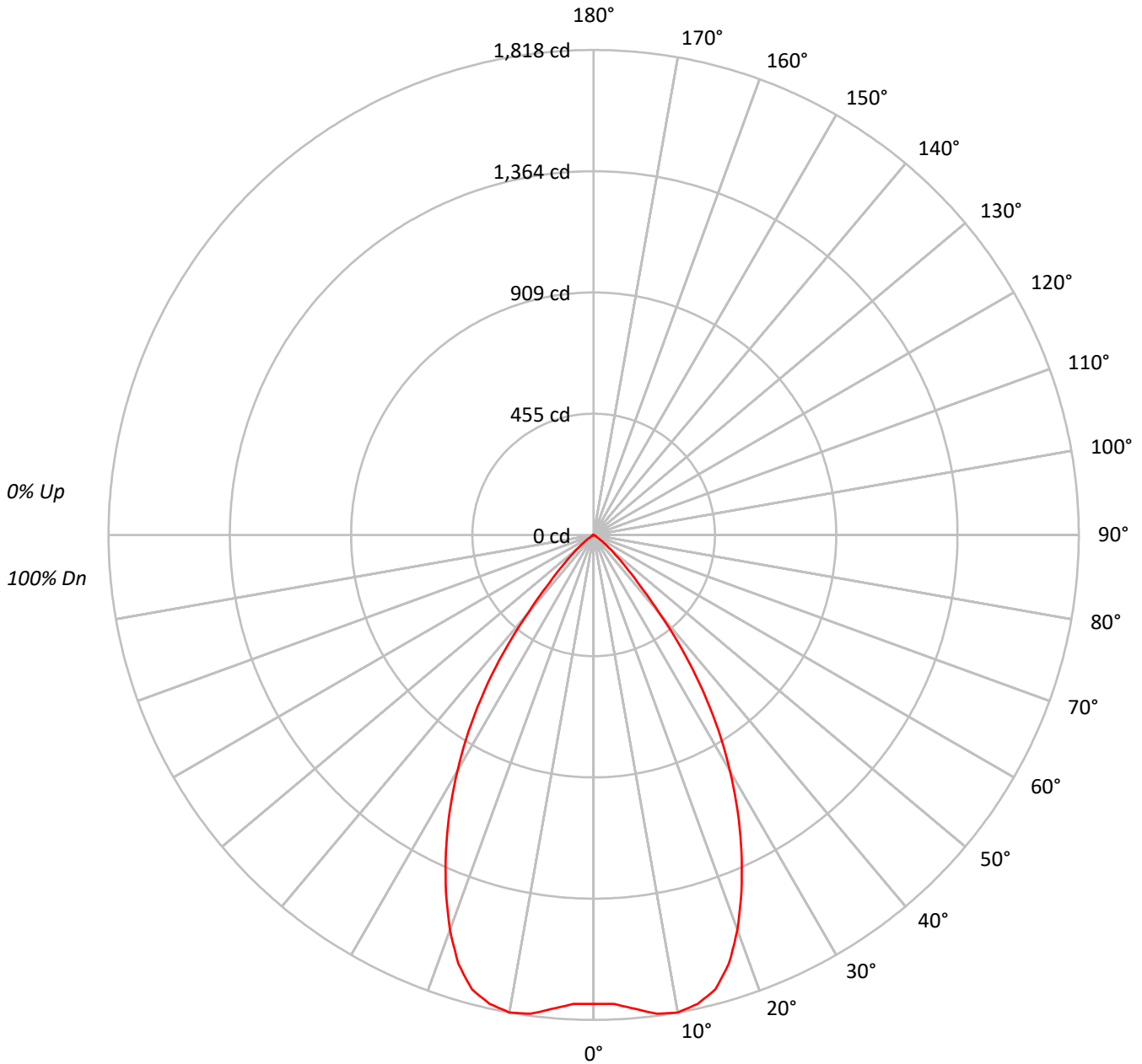
Lumens per Lamp: N/A
Luminaire Lumens: 1872.3 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.96
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580081
CATALOG NUMBER: HCC4S20D010BZ-HM40525935-41MDC

Luminous Intensity Polar Plot





TEST NUMBER: P580081

CATALOG NUMBER: HCC4S20D010BZ-HM40525935-41MDC

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	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																											
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93																											
2	108	103	98	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86																											
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80																											
4	97	89	83	79	95	88	82	78	86	81	77	84	80	77	82	78	76	74																											
5	91	83	77	72	90	82	76	72	80	75	72	78	74	71	77	73	70	69																											
6	87	78	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64																											
7	82	73	66	62	81	72	66	62	71	65	62	69	65	61	68	64	61	60																											
8	78	68	62	58	77	68	62	58	67	61	57	65	61	57	64	60	57	56																											
9	74	64	58	54	73	64	58	54	63	57	54	62	57	54	61	57	53	52																											
10	70	61	55	51	69	60	54	51	59	54	50	58	54	50	58	53	50	49																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	216854
5°	220840
10°	227664
15°	225142
20°	206724
25°	178341
30°	145347
35°	107618
40°	61734
45°	29846
50°	14200
55°	4968
60°	1776
65°	1080
70°	866
75°	620
80°	0
85°	0



TEST NUMBER: P580081
 CATALOG NUMBER: HCC4S20D010BZ-HM40525935-41MDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.6	9.2
10°-20°	488.8	26.1
20°-30°	596.9	31.9
30°-40°	438.8	23.4
40°-50°	145.4	7.8
50°-60°	25.7	1.4
60°-70°	3.9	0.2
70°-80°	1.3	0.1
80°-90°	0.0	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°	1257.2	67.1
0°-40°	1696.0	90.6
0°-60°	1867.1	99.7
0°-90°	1872.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1872.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1758	
5°	1784	172
15°	1763	489
25°	1310	597
35°	715	439
45°	171	145
55°	23	26
65°	4	4
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P580081
CATALOG NUMBER: HCC4S20D010BZ-HM40525935-41MDC

CANDELA DISTRIBUTION (FULL):

	0°
0°	1758.1
2.5°	1759.4
5°	1783.6
7.5°	1810.3
10°	1817.7
12.5°	1800.7
15°	1763.1
17.5°	1685.4
20°	1574.9
22.5°	1446.4
25°	1310.4
27.5°	1168.4
30°	1020.5
32.5°	872.4
35°	714.7
37.5°	554.5
40°	383.4
42.5°	253.6
45°	171.1
47.5°	114.0
50°	74.0
52.5°	43.7
55°	23.1
57.5°	9.7
60°	7.2
62.5°	4.8
65°	3.7
67.5°	2.4
70°	2.4
72.5°	1.3
75°	1.3
77.5°	1.3
80°	0.0
82.5°	0.0
85°	0.0
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)