

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: P580084

Luminaire Tested: **HCC4S20D010SL-HM40525935-41MDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580084
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S20D010SL-HM40525935-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

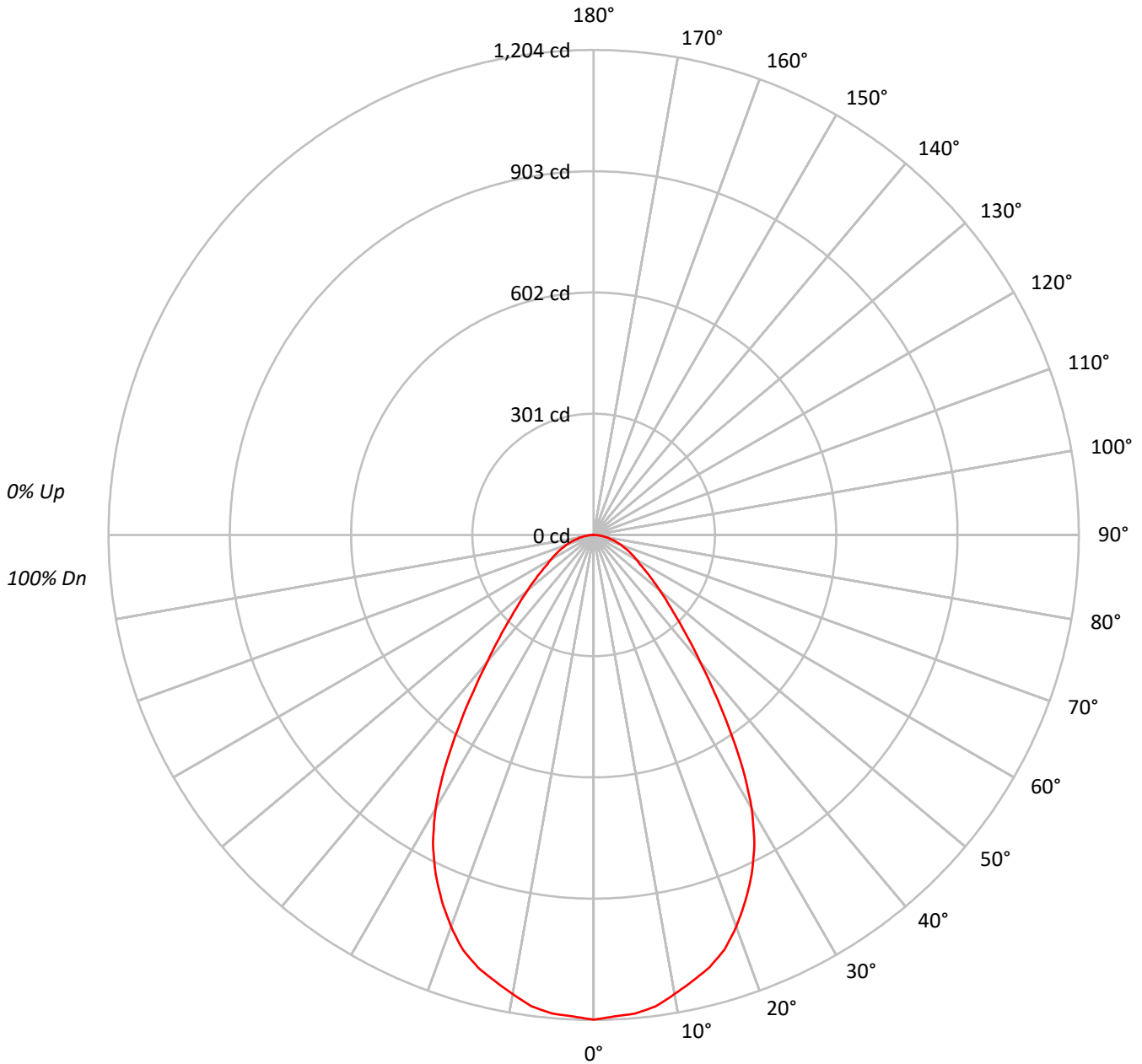
Lumens per Lamp: N/A
Luminaire Lumens: 1751.0 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580084
CATALOG NUMBER: HCC4S20D010SL-HM40525935-41MDW

Luminous Intensity Polar Plot





TEST NUMBER: P580084
 CATALOG NUMBER: HCC4S20D010SL-HM40525935-41MDW

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	148446
5°	147652
10°	144963
15°	141909
20°	135830
25°	126325
30°	111791
35°	88238
40°	66033
45°	50796
50°	41199
55°	34192
60°	30220
65°	27989
70°	25822
75°	23733
80°	21523
85°	17266



TEST NUMBER: P580084
 CATALOG NUMBER: HCC4S20D010SL-HM40525935-41MDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.7	6.4
10°-20°	311.7	17.8
20°-30°	423.2	24.2
30°-40°	366.6	20.9
40°-50°	230.1	13.1
50°-60°	144.8	8.3
60°-70°	95.1	5.4
70°-80°	52.5	3.0
80°-90°	14.3	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°	847.6	48.4
0°-40°	1214.1	69.3
0°-60°	1589.1	90.8
0°-90°	1751.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1751.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1204	
5°	1192	113
15°	1111	312
25°	928	423
35°	586	367
45°	291	230
55°	159	145
65°	96	95
75°	50	52
85°	12	14
90°	0	



TEST NUMBER: P580084
CATALOG NUMBER: HCC4S20D010SL-HM40525935-41MDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	1203.5
2.5°	1196.2
5°	1192.5
7.5°	1180.5
10°	1157.4
12.5°	1134.4
15°	1111.3
17.5°	1079.8
20°	1034.8
22.5°	983.9
25°	928.2
27.5°	863.8
30°	784.9
32.5°	689.1
35°	586.0
37.5°	491.4
40°	410.1
42.5°	345.8
45°	291.2
47.5°	249.9
50°	214.7
52.5°	184.4
55°	159.0
57.5°	137.1
60°	122.5
62.5°	109.2
65°	95.9
67.5°	82.5
70°	71.6
72.5°	59.4
75°	49.8
77.5°	38.8
80°	30.3
82.5°	20.6
85°	12.2
87.5°	4.8
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)