

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: P580032

Luminaire Tested: **HCC4S20D010MW-HM40525840-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580032
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S20D010MW-HM40525840-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

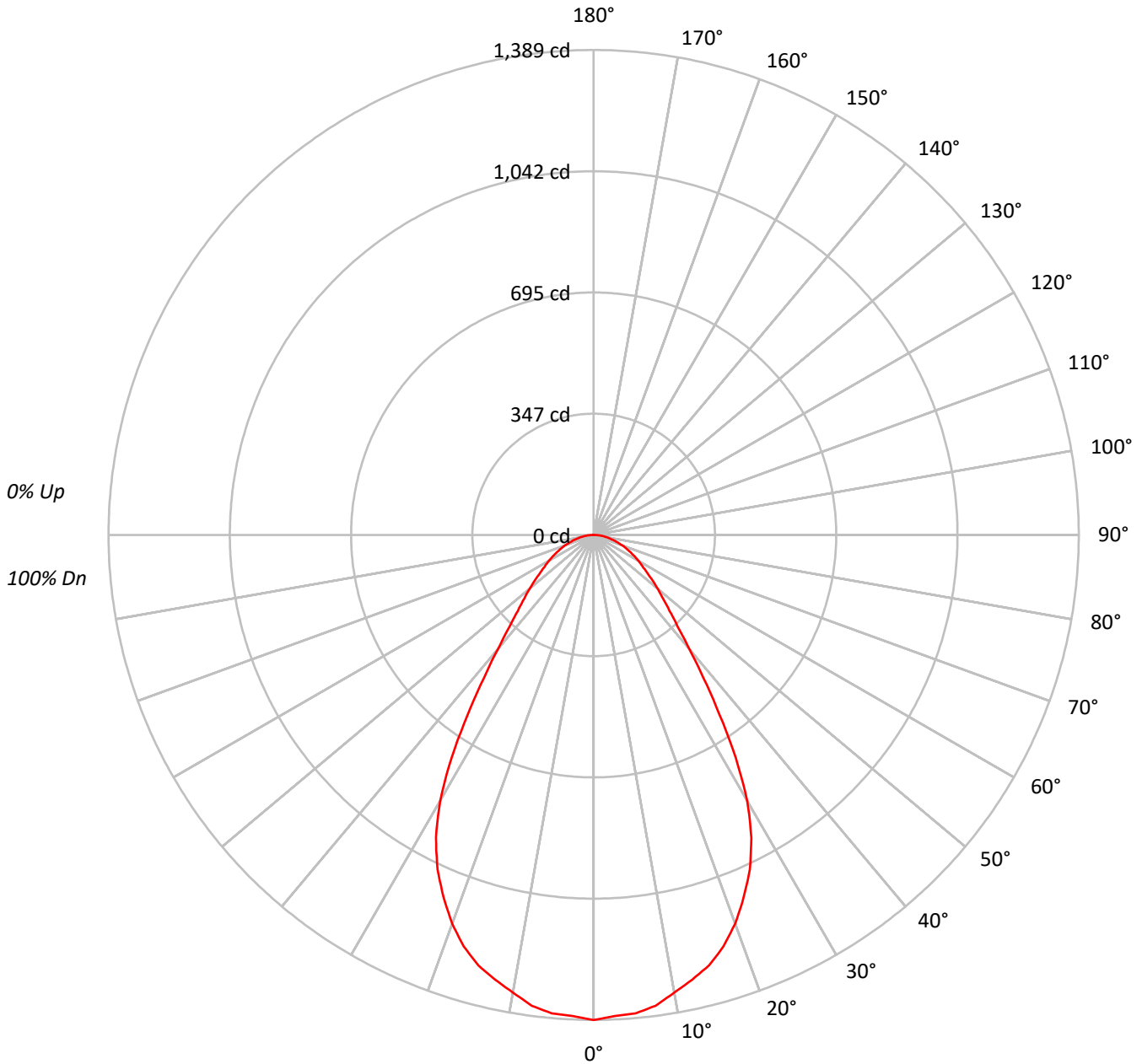
Lumens per Lamp: N/A
Luminaire Lumens: 1972.9 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580032
CATALOG NUMBER: HCC4S20D010MW-HM40525840-41PSMDW

Luminous Intensity Polar Plot





TEST NUMBER: P580032
 CATALOG NUMBER: HCC4S20D010MW-HM40525840-41PSMDW

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								
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89								
2	103	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78								
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70								
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63								
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57								
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	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	47	42	52	46	42	51	46	42	40								
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37								

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	171376
5°	170298
10°	166668
15°	162992
20°	155453
25°	143895
30°	125165
35°	94532
40°	68496
45°	53535
50°	45785
55°	39590
60°	36461
65°	33389
70°	31195
75°	28594
80°	26708
85°	25616



TEST NUMBER: P580032
 CATALOG NUMBER: HCC4S20D010MW-HM40525840-41PSMDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.9	6.6
10°-20°	357.5	18.1
20°-30°	480.7	24.4
30°-40°	395.3	20.0
40°-50°	242.8	12.3
50°-60°	168.0	8.5
60°-70°	114.5	5.8
70°-80°	63.8	3.2
80°-90°	20.3	1.0
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°	968.2	49.1
0°-40°	1363.5	69.1
0°-60°	1774.3	89.9
0°-90°	1972.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1972.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1389	
5°	1375	130
15°	1276	358
25°	1057	481
35°	628	395
45°	307	243
55°	184	168
65°	114	115
75°	60	64
85°	18	20
90°	0	



TEST NUMBER: P580032

CATALOG NUMBER: HCC4S20D010MW-HM40525840-41PSMDW

CANDELA DISTRIBUTION (FULL):

0°	
0°	1389.4
2.5°	1379.6
5°	1375.4
7.5°	1360.0
10°	1330.7
12.5°	1304.3
15°	1276.4
17.5°	1235.9
20°	1184.3
22.5°	1122.9
25°	1057.3
27.5°	977.8
30°	878.8
32.5°	757.5
35°	627.8
37.5°	516.2
40°	425.4
42.5°	355.7
45°	306.9
47.5°	269.2
50°	238.6
52.5°	210.6
55°	184.1
57.5°	164.6
60°	147.8
62.5°	131.1
65°	114.4
67.5°	100.5
70°	86.5
72.5°	72.5
75°	60.0
77.5°	47.4
80°	37.6
82.5°	27.9
85°	18.1
87.5°	9.7
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)