

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: P592630

Luminaire Tested: **HCC4S15D010MW-HM40525850-41NDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592630
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S15D010MW-HM40525850-41NDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

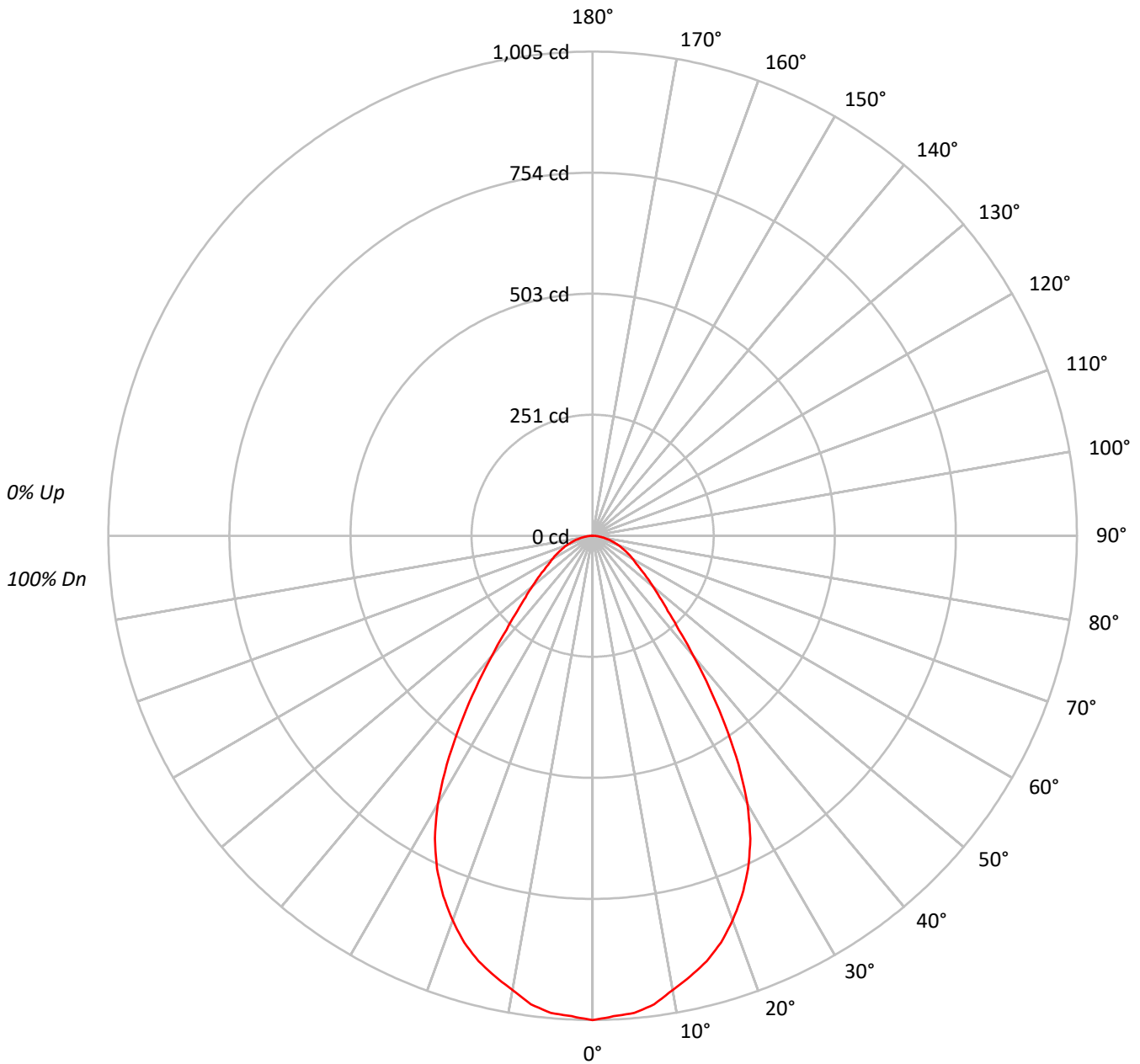
Lumens per Lamp: N/A
Luminaire Lumens: 1411.6 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 14
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: P592630
CATALOG NUMBER: HCC4S15D010MW-HM40525850-41NDW

Luminous Intensity Polar Plot





TEST NUMBER: P592630
 CATALOG NUMBER: HCC4S15D010MW-HM40525850-41NDW

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		98	96	94		94	92	91	89
2	104	97	92	88	101	96	91	87	92	88	85		89	86	83		86	83	81	79
3	97	88	82	77	95	87	81	76	84	79	75		82	77	74		79	76	73	71
4	90	81	74	68	88	80	73	68	77	72	67		75	70	66		73	69	65	64
5	85	74	67	61	83	73	66	61	71	65	60		69	64	60		68	63	59	58
6	79	68	61	56	78	67	60	55	66	60	55		64	59	55		63	58	54	52
7	75	63	56	51	73	62	56	51	61	55	50		60	54	50		59	53	50	48
8	70	59	52	47	69	58	51	46	57	51	46		56	50	46		55	50	46	44
9	66	55	48	43	65	54	47	43	53	47	43		52	47	43		51	46	42	41
10	63	51	44	40	62	51	44	40	50	44	40		49	43	39		48	43	39	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	124012
5°	123099
10°	119888
15°	116728
20°	111507
25°	103883
30°	91481
35°	72142
40°	52362
45°	38481
50°	31317
55°	26257
60°	23781
65°	21860
70°	20340
75°	18586
80°	16764
85°	14435



TEST NUMBER: P592630
 CATALOG NUMBER: HCC4S15D010MW-HM40525850-41NDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.7	6.6
10°-20°	256.4	18.2
20°-30°	347.6	24.6
30°-40°	298.3	21.1
40°-50°	176.1	12.5
50°-60°	111.6	7.9
60°-70°	75.0	5.3
70°-80°	41.4	2.9
80°-90°	11.6	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°	697.7	49.4
0°-40°	995.9	70.6
0°-60°	1283.7	90.9
0°-90°	1411.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1411.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1005	
5°	994	94
15°	914	256
25°	763	348
35°	479	298
45°	221	176
55°	122	112
65°	75	75
75°	39	41
85°	10	12
90°	0	



TEST NUMBER: P592630
CATALOG NUMBER: HCC4S15D010MW-HM40525850-41NDW

CANDELA DISTRIBUTION (FULL):

	0°
0°	1005.4
2.5°	998.3
5°	994.2
7.5°	980.8
10°	957.2
12.5°	936.7
15°	914.1
17.5°	885.4
20°	849.5
22.5°	809.4
25°	763.3
27.5°	708.9
30°	642.3
32.5°	563.3
35°	479.1
37.5°	398.1
40°	325.2
42.5°	264.7
45°	220.6
47.5°	188.7
50°	163.2
52.5°	141.6
55°	122.1
57.5°	106.7
60°	96.4
62.5°	86.2
65°	74.9
67.5°	65.6
70°	56.4
72.5°	47.2
75°	39.0
77.5°	30.8
80°	23.6
82.5°	16.4
85°	10.2
87.5°	4.1
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)