

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: P592731

Luminaire Tested: **HCC4S30D010MB-HM43040850-41NDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592731
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S30D010MB-HM43040850-41NDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

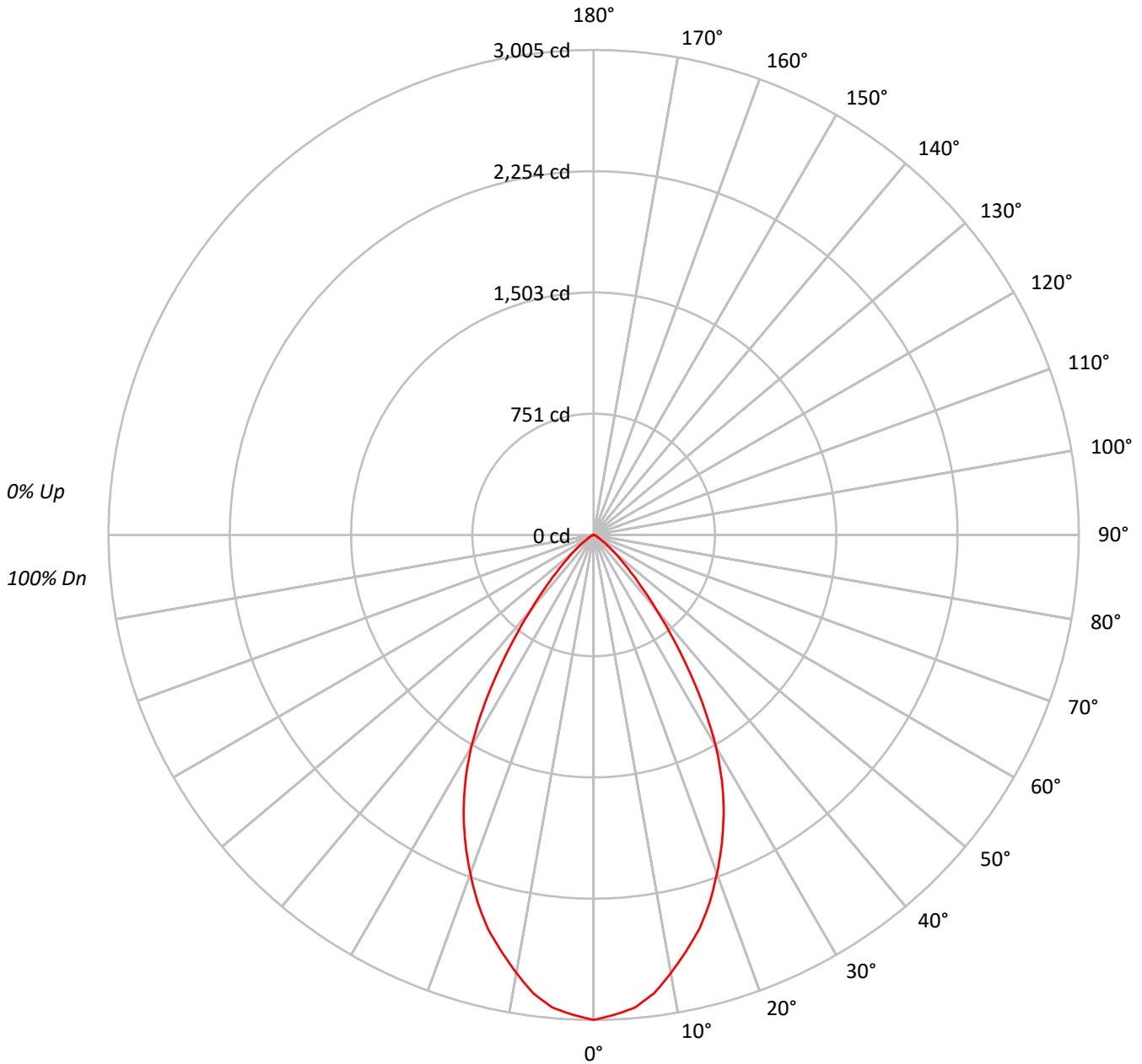
Lumens per Lamp: N/A
Luminaire Lumens: 2857.6 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 28
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: P592731
CATALOG NUMBER: HCC4S30D010MB-HM43040850-41NDH

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab
 1121 Highway 74 South
 Peachtree City, GA 30269



TEST NUMBER: P592731

CATALOG NUMBER: HCC4S30D010MB-HM43040850-41NDH

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			100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93			93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86			86
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79			79
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	74	73			73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67			67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	63			63
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58			58
8	77	67	61	57	76	67	61	56	65	60	56	64	59	56	63	59	56	54			54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51			51
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48			48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	370641
5°	363898
10°	345172
15°	322741
20°	293120
25°	259387
30°	215749
35°	155576
40°	97093
45°	55994
50°	31605
55°	15032
60°	8634
65°	6625
70°	4436
75°	2955
80°	2912
85°	2830



TEST NUMBER: P592731
 CATALOG NUMBER: HCC4S30D010MB-HM43040850-41NDH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.7	9.6
10°-20°	705.1	24.7
20°-30°	867.2	30.3
30°-40°	644.0	22.5
40°-50°	261.8	9.2
50°-60°	72.5	2.5
60°-70°	22.6	0.8
70°-80°	7.6	0.3
80°-90°	2.2	0.1
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°	1846.9	64.6
0°-40°	2490.9	87.2
0°-60°	2825.3	98.9
0°-90°	2857.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2857.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3005	
5°	2939	275
15°	2527	705
25°	1906	867
35°	1033	644
45°	321	262
55°	70	72
65°	23	23
75°	6	8
85°	2	2
90°	0	



TEST NUMBER: P592731

CATALOG NUMBER: HCC4S30D010MB-HM43040850-41NDH

CANDELA DISTRIBUTION (FULL):

	0°
0°	3004.9
2.5°	2976.1
5°	2939.0
7.5°	2865.0
10°	2755.9
12.5°	2642.7
15°	2527.4
17.5°	2389.6
20°	2233.1
22.5°	2074.6
25°	1905.9
27.5°	1722.7
30°	1514.8
32.5°	1278.1
35°	1033.2
37.5°	802.7
40°	603.0
42.5°	440.5
45°	321.0
47.5°	230.6
50°	164.7
52.5°	113.3
55°	69.9
57.5°	45.2
60°	35.0
62.5°	28.8
65°	22.7
67.5°	16.5
70°	12.3
72.5°	10.3
75°	6.2
77.5°	4.1
80°	4.1
82.5°	2.0
85°	2.0
87.5°	2.0
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)