

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: P580337

Luminaire Tested: **HCC4S30D010BZ-HM43040927-41NDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580337
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: HCC4S30D010BZ-HM43040927-41NDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

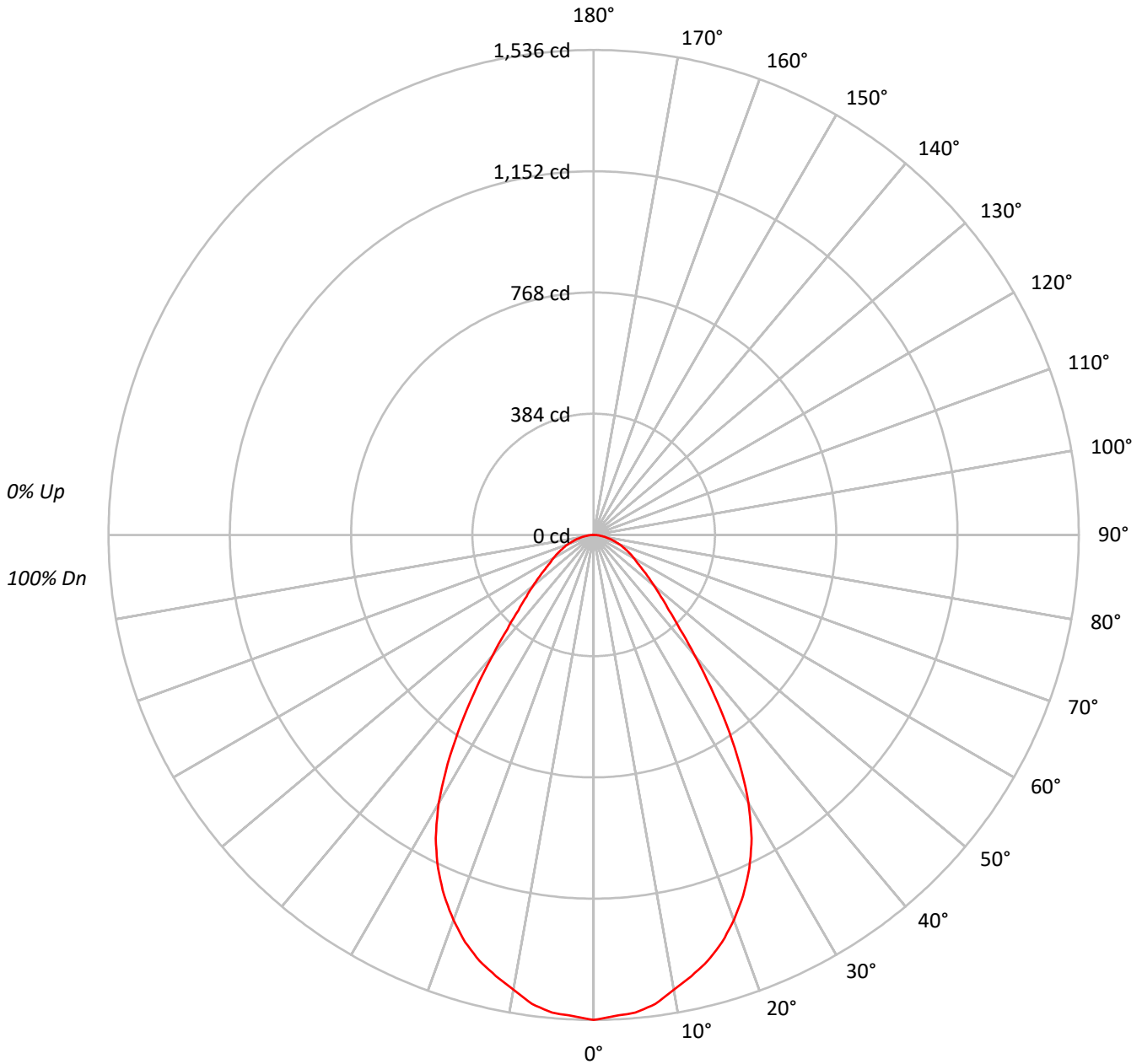
Lumens per Lamp: N/A
Luminaire Lumens: 2156.4 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P580337
CATALOG NUMBER: HCC4S30D010BZ-HM43040927-41NDW

Luminous Intensity Polar Plot





TEST NUMBER: P580337
 CATALOG NUMBER: HCC4S30D010BZ-HM43040927-41NDW

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	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°	189459
5°	188041
10°	183151
15°	178329
20°	170351
25°	158703
30°	139735
35°	110223
40°	80009
45°	58768
50°	47819
55°	40106
60°	36338
65°	33389
70°	31087
75°	28404
80°	25643
85°	22219



TEST NUMBER: P580337
 CATALOG NUMBER: HCC4S30D010BZ-HM43040927-41NDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.2	6.6
10°-20°	391.7	18.2
20°-30°	531.0	24.6
30°-40°	455.6	21.1
40°-50°	269.0	12.5
50°-60°	170.5	7.9
60°-70°	114.5	5.3
70°-80°	63.2	2.9
80°-90°	17.7	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°	1065.9	49.4
0°-40°	1521.5	70.6
0°-60°	1961.0	90.9
0°-90°	2156.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2156.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1536	
5°	1519	143
15°	1396	392
25°	1166	531
35°	732	456
45°	337	269
55°	186	170
65°	114	115
75°	60	63
85°	16	18
90°	0	



TEST NUMBER: P580337
CATALOG NUMBER: HCC4S30D010BZ-HM43040927-41NDW

CANDELA DISTRIBUTION (FULL):

0°	
0°	1536.0
2.5°	1525.1
5°	1518.7
7.5°	1498.3
10°	1462.3
12.5°	1431.0
15°	1396.5
17.5°	1352.6
20°	1297.8
22.5°	1236.6
25°	1166.1
27.5°	1083.0
30°	981.1
32.5°	860.4
35°	732.0
37.5°	608.1
40°	496.9
42.5°	404.4
45°	336.9
47.5°	288.4
50°	249.2
52.5°	216.2
55°	186.5
57.5°	163.0
60°	147.3
62.5°	131.6
65°	114.4
67.5°	100.3
70°	86.2
72.5°	72.1
75°	59.6
77.5°	47.0
80°	36.1
82.5°	25.0
85°	15.7
87.5°	6.3
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)