

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: P580299

Luminaire Tested: **HCC4S30D010BZ-HM43040835-41WDC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580299
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S30D010BZ-HM43040835-41WDC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

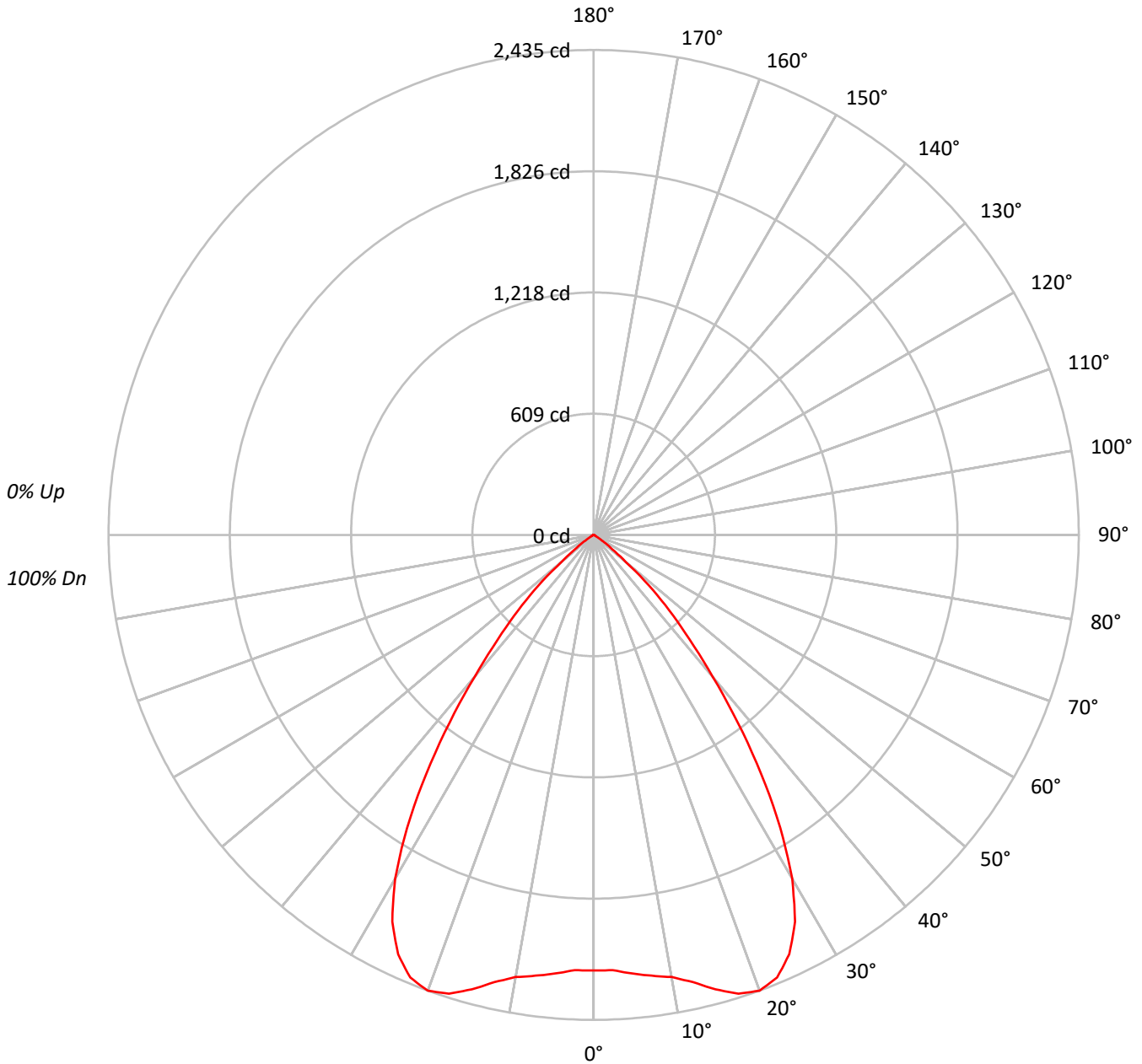
Lumens per Lamp: N/A
Luminaire Lumens: 3339.2 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.11
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P580299
CATALOG NUMBER: HCC4S30D010BZ-HM43040835-41WDC

Luminous Intensity Polar Plot





TEST NUMBER: P580299
 CATALOG NUMBER: HCC4S30D010BZ-HM43040835-41WDC

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92		
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85		
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77		
4	95	86	80	76	93	85	79	75	83	78	74	81	77	73	79	75	72	71		
5	89	80	73	69	87	79	73	68	77	72	68	75	71	67	74	70	66	65		
6	84	74	67	63	82	73	67	62	72	66	62	70	65	62	69	65	61	60		
7	79	69	62	57	78	68	62	57	67	61	57	66	60	57	64	60	56	55		
8	75	64	57	53	73	63	57	53	62	57	53	61	56	52	60	56	52	51		
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	52	48	47		
10	67	56	50	45	66	55	49	45	55	49	45	54	49	45	53	48	45	43		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	269757
5°	273722
10°	282310
15°	301633
20°	319622
25°	316126
30°	283744
35°	220821
40°	149600
45°	93411
50°	40412
55°	13526
60°	3404
65°	2306
70°	1406
75°	905
80°	1350
85°	0



TEST NUMBER: P580299
 CATALOG NUMBER: HCC4S30D010BZ-HM43040835-41WDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.3	6.4
10°-20°	670.6	20.1
20°-30°	1050.7	31.5
30°-40°	906.8	27.2
40°-50°	417.0	12.5
50°-60°	70.8	2.1
60°-70°	8.0	0.2
70°-80°	2.8	0.1
80°-90°	0.3	0.0
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°	1933.6	57.9
0°-40°	2840.3	85.1
0°-60°	3328.1	99.7
0°-90°	3339.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3339.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2187	
5°	2211	212
15°	2362	671
25°	2323	1051
35°	1466	907
45°	536	417
55°	63	71
65°	8	8
75°	2	3
85°	0	0
90°	0	



TEST NUMBER: P580299
CATALOG NUMBER: HCC4S30D010BZ-HM43040835-41WDC

CANDELA DISTRIBUTION (FULL):

	0°
0°	2187.0
2.5°	2187.0
5°	2210.7
7.5°	2232.3
10°	2254.0
12.5°	2299.2
15°	2362.1
17.5°	2415.4
20°	2435.0
22.5°	2405.5
25°	2322.8
27.5°	2189.0
30°	1992.2
32.5°	1744.1
35°	1466.5
37.5°	1187.0
40°	929.1
42.5°	710.6
45°	535.5
47.5°	376.0
50°	210.6
52.5°	116.2
55°	62.9
57.5°	31.5
60°	13.8
62.5°	9.8
65°	7.9
67.5°	5.9
70°	3.9
72.5°	3.9
75°	1.9
77.5°	1.9
80°	1.9
82.5°	0.0
85°	0.0
87.5°	0.0
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)