

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: P580294

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580294
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: HCC4S30D010BZ-HM43040835-41NDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

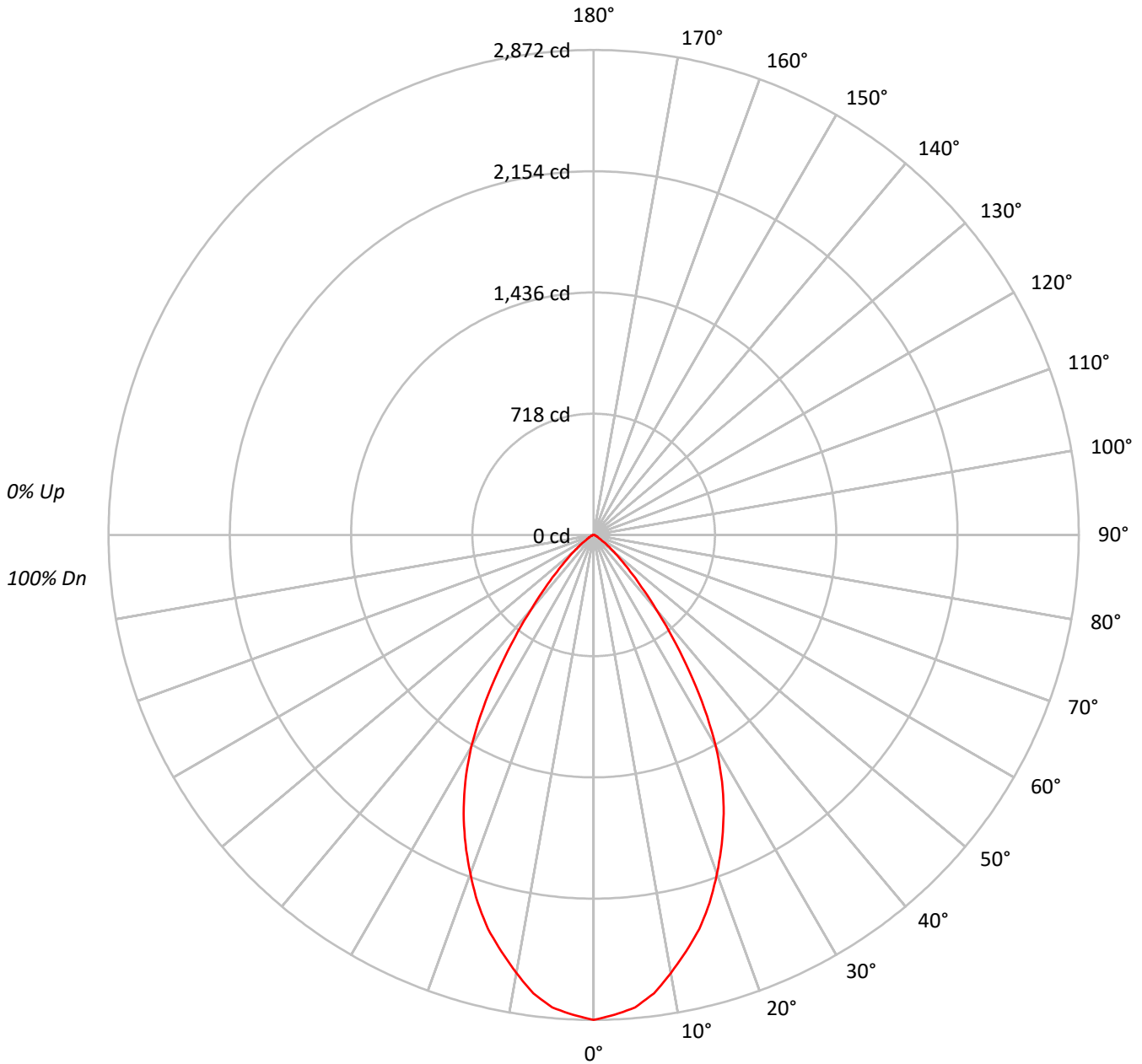
Lumens per Lamp: N/A
Luminaire Lumens: 2731.2 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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



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Luminous Intensity Polar Plot





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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	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°	354249
5°	347814
10°	329904
15°	308464
20°	280152
25°	247900
30°	206206
35°	148695
40°	92810
45°	53517
50°	30204
55°	14387
60°	8239
65°	6333
70°	4256
75°	2812
80°	2770
85°	2689



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.6	9.6
10°-20°	673.9	24.7
20°-30°	828.8	30.3
30°-40°	615.5	22.5
40°-50°	250.2	9.2
50°-60°	69.3	2.5
60°-70°	21.6	0.8
70°-80°	7.2	0.3
80°-90°	2.1	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°	1765.2	64.6
0°-40°	2380.7	87.2
0°-60°	2700.3	98.9
0°-90°	2731.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2731.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2872	
5°	2809	263
15°	2416	674
25°	1822	829
35°	988	616
45°	307	250
55°	67	69
65°	22	22
75°	6	7
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2872.0
2.5°	2844.5
5°	2809.1
7.5°	2738.2
10°	2634.0
12.5°	2525.8
15°	2415.6
17.5°	2283.9
20°	2134.3
22.5°	1982.8
25°	1821.5
27.5°	1646.4
30°	1447.8
32.5°	1221.6
35°	987.5
37.5°	767.2
40°	576.4
42.5°	421.0
45°	306.8
47.5°	220.3
50°	157.4
52.5°	108.2
55°	66.9
57.5°	43.3
60°	33.4
62.5°	27.5
65°	21.7
67.5°	15.8
70°	11.8
72.5°	9.8
75°	5.9
77.5°	3.9
80°	3.9
82.5°	1.9
85°	1.9
87.5°	1.9
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)