

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: P580262

Luminaire Tested: **HCC4W30D010BZ-HM43040827-41NDC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580262
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W30D010BZ-HM43040827-41NDC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

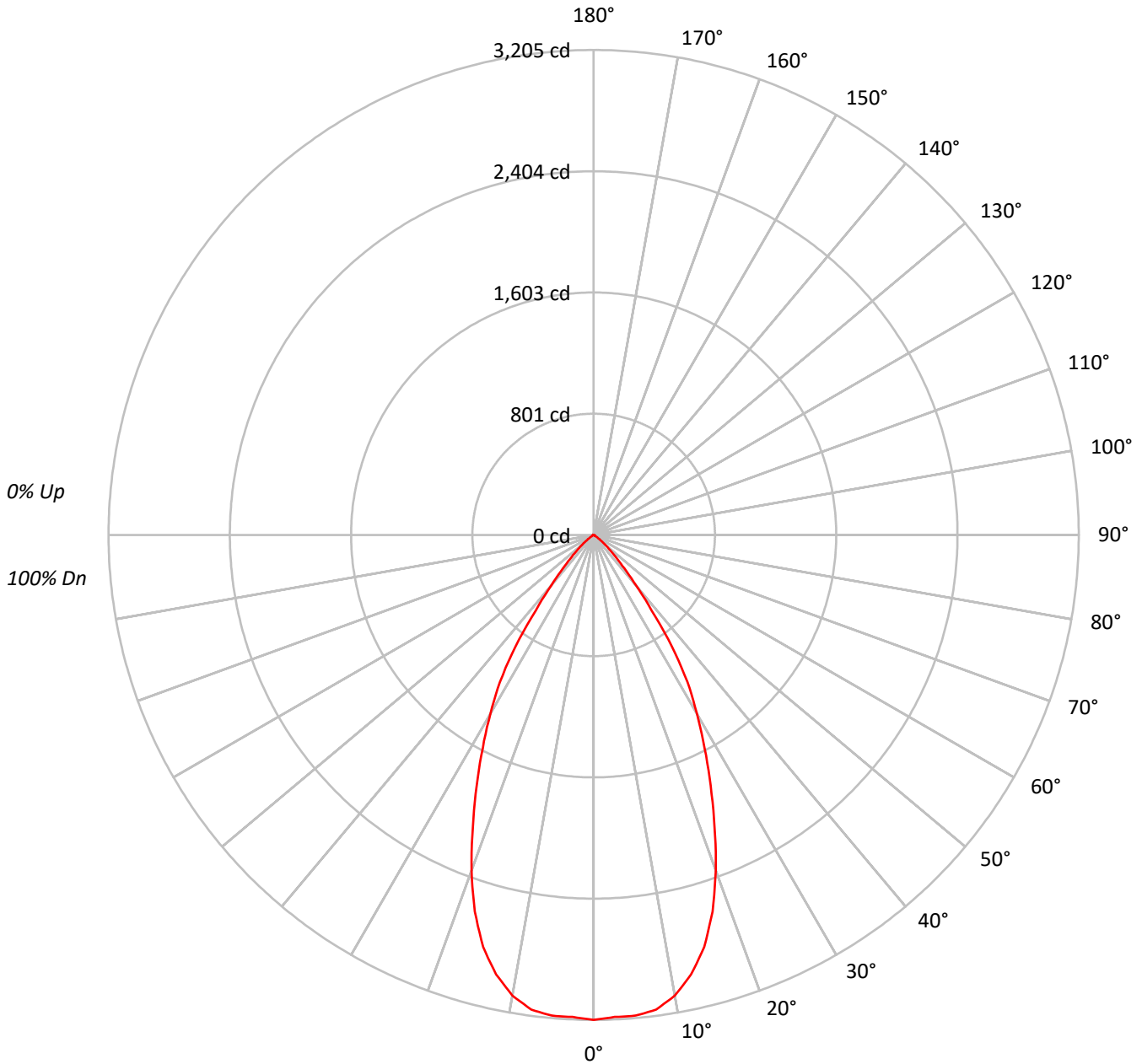
Lumens per Lamp: N/A
Luminaire Lumens: 2684.1 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	114	111	108	106	111	109	106	104	105	103	101		101	100	98		97	96	95	94
2	108	103	99	96	106	101	98	95	98	95	93		95	93	91		93	91	89	87
3	103	96	91	87	101	95	90	87	92	88	85		90	87	84		88	85	83	81
4	97	90	85	80	96	89	84	80	87	82	79		85	81	78		83	80	77	76
5	93	84	79	74	91	83	78	74	82	77	73		80	76	73		78	75	72	71
6	88	79	73	69	87	78	73	69	77	72	68		76	71	68		74	70	67	66
7	84	75	69	64	82	74	68	64	73	68	64		71	67	64		70	66	63	62
8	80	70	64	60	78	70	64	60	69	64	60		68	63	60		67	62	59	58
9	76	66	61	57	75	66	60	57	65	60	56		64	59	56		63	59	56	55
10	72	63	57	53	71	62	57	53	62	57	53		61	56	53		60	56	53	52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	395347
5°	394852
10°	387155
15°	359990
20°	309594
25°	248717
30°	194171
35°	135956
40°	69768
45°	35411
50°	17750
55°	6623
60°	2664
65°	2101
70°	1298
75°	858
80°	1279
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.5	11.2
10°-20°	778.2	29.0
20°-30°	838.3	31.2
30°-40°	550.8	20.5
40°-50°	171.2	6.4
50°-60°	33.6	1.3
60°-70°	7.1	0.3
70°-80°	2.6	0.1
80°-90°	0.7	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°	1918.0	71.5
0°-40°	2468.8	92.0
0°-60°	2673.7	99.6
0°-90°	2684.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2684.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3205	
5°	3189	302
15°	2819	778
25°	1828	838
35°	903	551
45°	203	171
55°	31	34
65°	7	7
75°	2	3
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3205.2
2.5°	3189.0
5°	3189.0
7.5°	3163.6
10°	3091.1
12.5°	2975.0
15°	2819.1
17.5°	2610.6
20°	2358.6
22.5°	2086.7
25°	1827.5
27.5°	1586.3
30°	1363.3
32.5°	1153.0
35°	902.9
37.5°	629.1
40°	433.3
42.5°	299.1
45°	203.0
47.5°	137.7
50°	92.5
52.5°	58.0
55°	30.8
57.5°	12.7
60°	10.8
62.5°	9.0
65°	7.2
67.5°	5.4
70°	3.6
72.5°	3.6
75°	1.8
77.5°	1.8
80°	1.8
82.5°	1.8
85°	0.0
87.5°	0.0
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)