

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: P580010

Luminaire Tested: **HCC4W20D010SL-HM40525835-41MDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580010
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4W20D010SL-HM40525835-41MDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

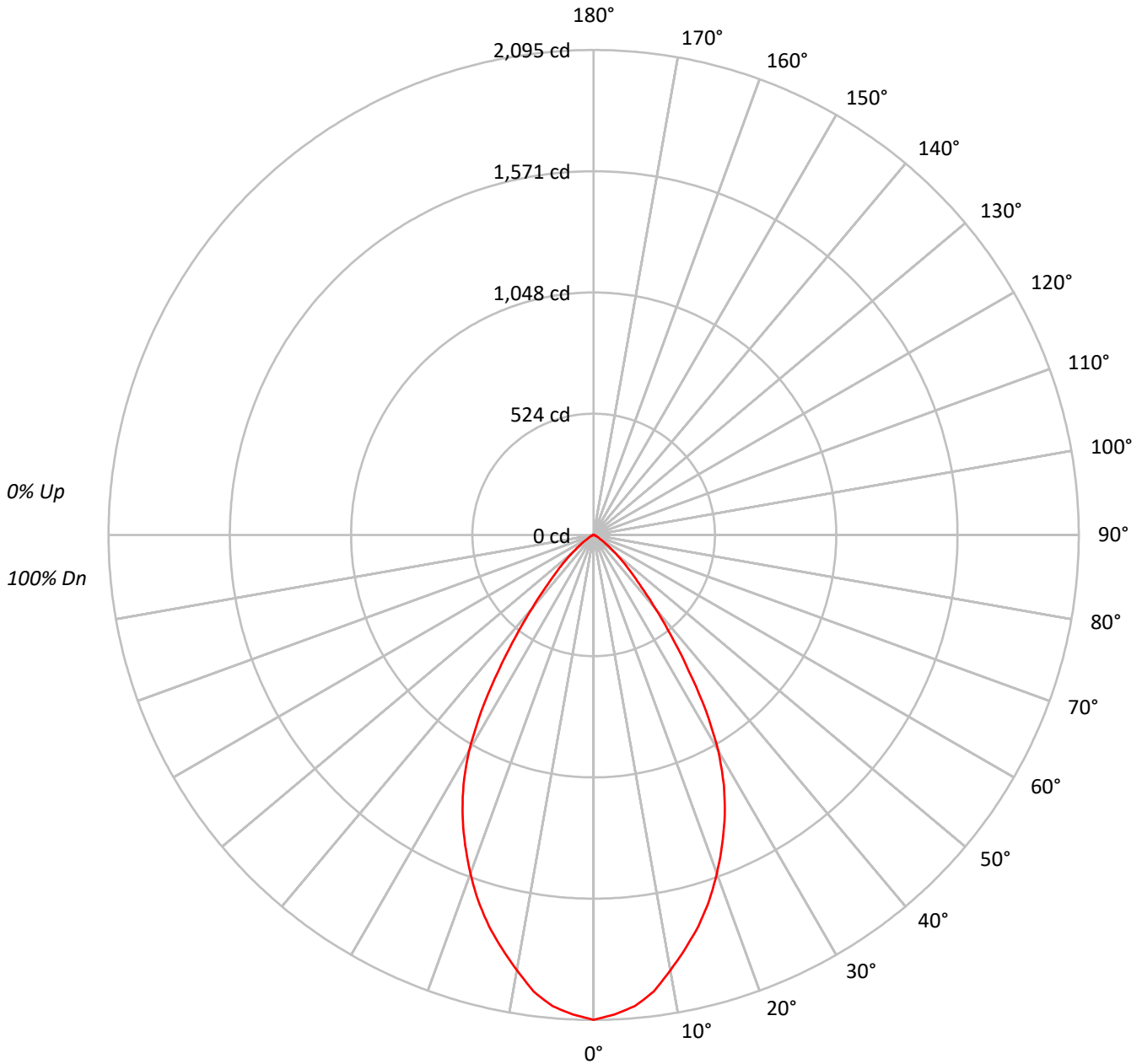
Lumens per Lamp: N/A
Luminaire Lumens: 1996.0 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 20
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	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79
4	96	88	82	78	94	87	81	77	85	80	76	82	79	75	81	77	74	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	56	54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	258397
5°	252995
10°	239074
15°	223291
20°	204230
25°	182370
30°	153152
35°	107738
40°	66451
45°	39789
50°	23449
55°	11677
60°	6019
65°	3940
70°	2452
75°	1954
80°	994
85°	1981



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.8	9.6
10°-20°	488.8	24.5
20°-30°	609.6	30.5
30°-40°	449.0	22.5
40°-50°	184.7	9.3
50°-60°	54.0	2.7
60°-70°	13.9	0.7
70°-80°	4.3	0.2
80°-90°	1.0	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°	1289.2	64.6
0°-40°	1738.2	87.1
0°-60°	1976.8	99.0
0°-90°	1996.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1996.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2095	
5°	2043	191
15°	1749	489
25°	1340	610
35°	716	449
45°	228	185
55°	54	54
65°	14	14
75°	4	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2094.9
2.5°	2073.1
5°	2043.3
7.5°	1989.0
10°	1908.8
12.5°	1830.2
15°	1748.6
17.5°	1657.6
20°	1555.9
22.5°	1449.9
25°	1340.0
27.5°	1217.8
30°	1075.3
32.5°	902.8
35°	715.5
37.5°	549.9
40°	412.7
42.5°	305.4
45°	228.1
47.5°	168.4
50°	122.2
52.5°	84.2
55°	54.3
57.5°	32.6
60°	24.4
62.5°	17.7
65°	13.5
67.5°	9.5
70°	6.8
72.5°	5.4
75°	4.1
77.5°	2.8
80°	1.4
82.5°	1.4
85°	1.4
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)