

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: P580083

Luminaire Tested: **HCC4W20D010MB-HM40525935-41WDC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580083
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: HCC4W20D010MB-HM40525935-41WDC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

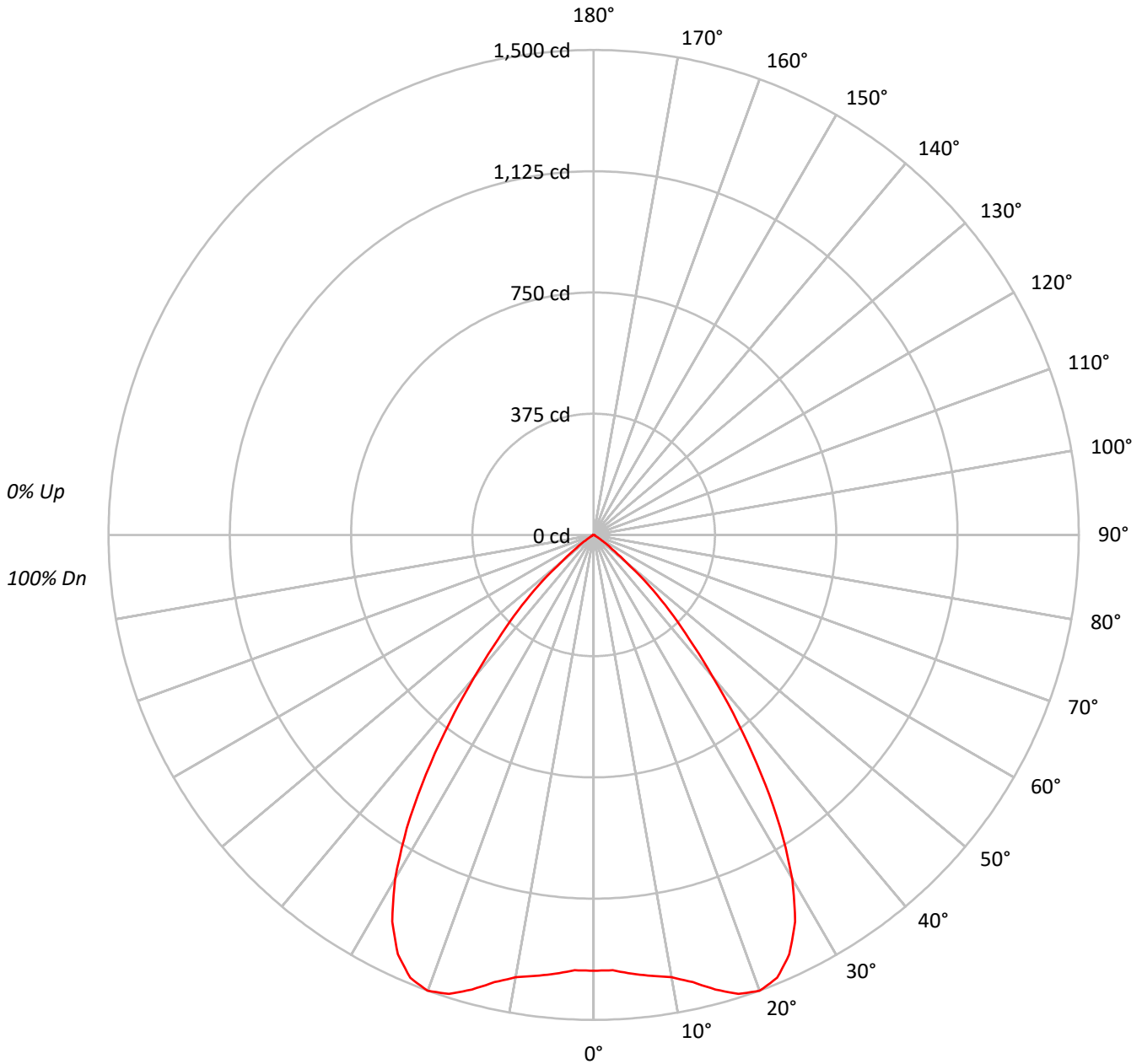
Lumens per Lamp: N/A
Luminaire Lumens: 2057.8 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.11
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92	92	92	92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85	85	85	85
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77	77	77	77
4	95	86	80	76	93	85	79	75	83	78	74	81	77	73	79	75	72	71	71	71	71
5	89	80	73	69	87	79	73	68	77	72	68	75	71	67	74	70	66	65	65	65	65
6	84	74	67	63	82	73	67	62	72	66	62	70	65	62	69	65	61	60	60	60	60
7	79	69	62	57	78	68	62	57	67	61	57	65	60	57	64	60	56	55	55	55	55
8	75	64	57	53	73	63	57	53	62	57	53	61	56	52	60	56	52	51	51	51	51
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	52	48	47	47	47	47
10	67	56	50	45	66	55	49	45	55	49	45	54	49	45	53	48	45	44	44	44	44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	166233
5°	168676
10°	173958
15°	185888
20°	196958
25°	194823
30°	174844
35°	136077
40°	92198
45°	57564
50°	24908
55°	8344
60°	2097
65°	1401
70°	866
75°	620
80°	923
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.9	6.4
10°-20°	413.2	20.1
20°-30°	647.5	31.5
30°-40°	558.8	27.2
40°-50°	257.0	12.5
50°-60°	43.6	2.1
60°-70°	4.9	0.2
70°-80°	1.8	0.1
80°-90°	0.2	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°	1191.5	57.9
0°-40°	1750.3	85.1
0°-60°	2050.9	99.7
0°-90°	2057.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2057.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1348	
5°	1362	131
15°	1456	413
25°	1432	647
35°	904	559
45°	330	257
55°	39	44
65°	5	5
75°	1	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1347.7
2.5°	1347.7
5°	1362.3
7.5°	1375.6
10°	1388.9
12.5°	1416.9
15°	1455.7
17.5°	1488.5
20°	1500.5
22.5°	1482.4
25°	1431.5
27.5°	1348.9
30°	1227.6
32.5°	1074.7
35°	903.7
37.5°	731.4
40°	572.6
42.5°	437.9
45°	330.0
47.5°	231.7
50°	129.8
52.5°	71.6
55°	38.8
57.5°	19.4
60°	8.5
62.5°	6.1
65°	4.8
67.5°	3.7
70°	2.4
72.5°	2.4
75°	1.3
77.5°	1.3
80°	1.3
82.5°	0.0
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)