

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: P580267

Luminaire Tested: **HCC4W30D010MB-HM43040827-41WDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580267  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W30D010MB-HM43040827-41WDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

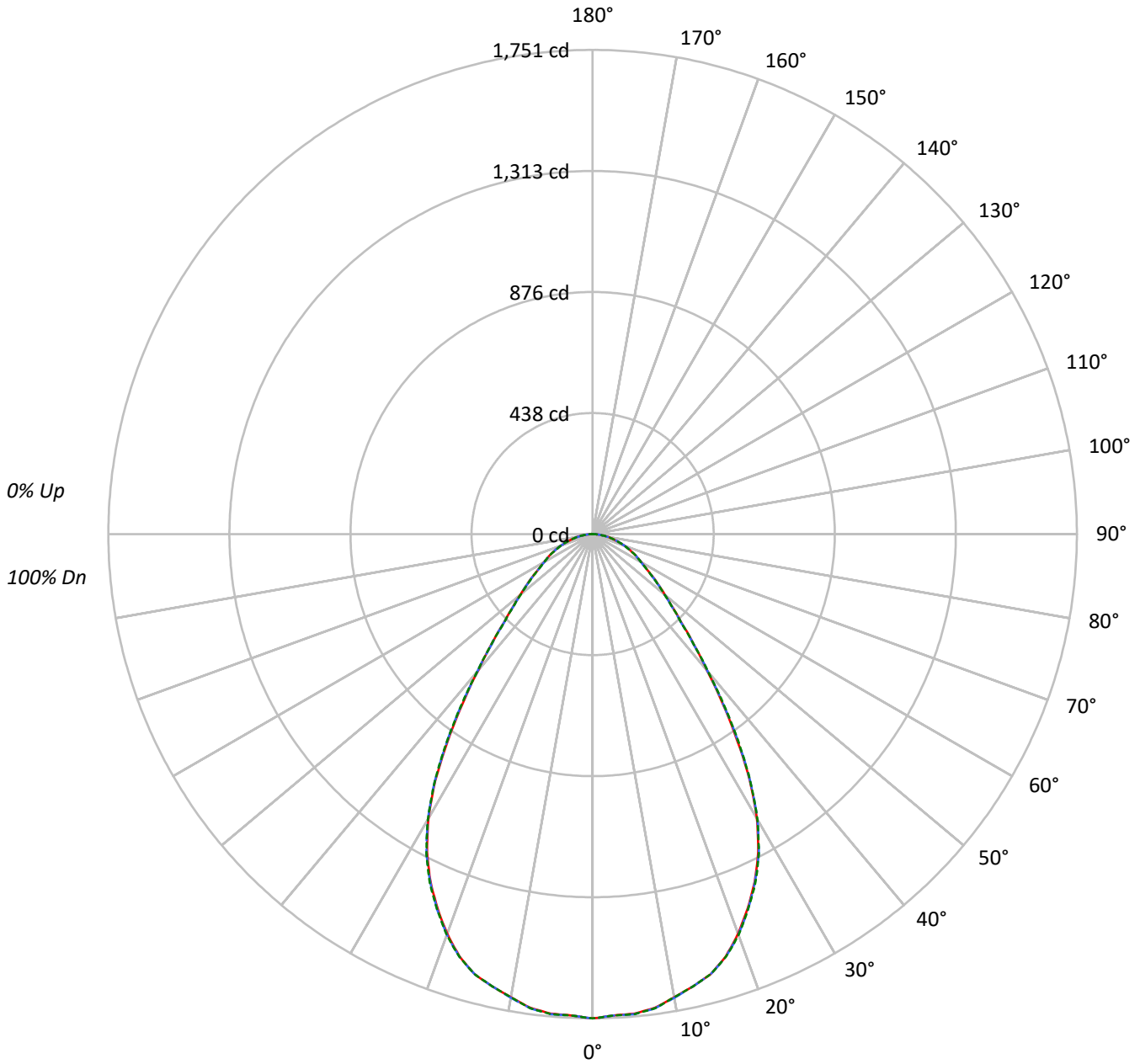
Lumens per Lamp: N/A  
Luminaire Lumens: 2702.3 lumens  
Efficiency: N/A  
Efficacy: 96.5 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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									
RC	80									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																			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89																			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78																			
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69																			
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	68	64	62																			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56																			
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51																			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46																			
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42																			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39																			
10	61	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	216028	216028	216028
5°	215516	215738	215738
10°	213010	213235	213010
15°	210457	210457	210457
20°	201815	202300	202537
25°	188766	189011	189515
30°	169147	169659	169659
35°	137326	138411	138682
40°	103630	104210	104516
45°	79369	79055	79055
50°	65416	65070	65070
55°	56149	55762	55762
60°	50078	49634	49634
65°	47106	47106	47106
70°	43818	43818	43818
75°	39746	40604	39746
80°	37363	36084	37363
85°	30852	30852	30852



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.0	6.1
10°-20°	461.8	17.1
20°-30°	634.6	23.5
30°-40°	570.6	21.1
40°-50°	360.5	13.3
50°-60°	235.4	8.7
60°-70°	159.5	5.9
70°-80°	89.8	3.3
80°-90°	25.2	0.9
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°	1261.4	46.7
0°-40°	1832.0	67.8
0°-60°	2427.8	89.8
0°-90°	2702.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2702.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1751	1751	1751	1751	1751	
5°	1741	1741	1742	1742	1742	165
15°	1648	1648	1648	1648	1648	461
25°	1387	1389	1389	1392	1392	633
35°	912	916	919	923	921	568
45°	455	453	453	453	453	361
55°	261	261	259	261	259	236
65°	161	161	161	161	161	160
75°	83	85	85	85	83	89
85°	22	22	22	22	22	25
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1751.4	1751.4	1751.4	1751.4	1751.4
2.5°	1742.4	1742.4	1742.4	1742.4	1742.4
5°	1740.6	1740.6	1742.4	1742.4	1742.4
7.5°	1727.9	1729.7	1729.7	1729.7	1729.7
10°	1700.7	1700.7	1702.5	1702.5	1700.7
12.5°	1675.3	1675.3	1675.3	1677.1	1675.3
15°	1648.1	1648.1	1648.1	1648.1	1648.1
17.5°	1601.0	1602.8	1602.8	1602.8	1602.8
20°	1537.5	1541.2	1541.2	1543.0	1543.0
22.5°	1465.0	1466.9	1468.7	1470.5	1468.7
25°	1387.0	1388.8	1388.8	1392.5	1392.5
27.5°	1296.4	1298.2	1301.8	1301.8	1301.8
30°	1187.6	1189.4	1191.2	1191.2	1191.2
32.5°	1058.9	1058.9	1062.5	1064.3	1062.5
35°	912.0	915.6	919.2	922.9	921.0
37.5°	772.3	776.1	777.9	777.9	779.7
40°	643.6	647.2	647.2	650.9	649.1
42.5°	542.1	540.3	540.3	543.9	542.1
45°	455.0	453.2	453.2	453.2	453.2
47.5°	391.6	389.8	389.8	389.8	389.8
50°	340.9	339.1	339.1	339.1	339.1
52.5°	299.1	297.3	297.3	297.3	295.5
55°	261.1	261.1	259.3	261.1	259.3
57.5°	226.6	226.6	226.6	226.6	226.6
60°	203.0	201.2	201.2	201.2	201.2
62.5°	181.3	181.3	181.3	181.3	181.3
65°	161.4	161.4	161.4	161.4	161.4
67.5°	141.5	139.6	141.5	141.5	139.6
70°	121.5	119.7	121.5	121.5	121.5
72.5°	101.5	101.5	101.5	103.3	101.5
75°	83.4	85.2	85.2	85.2	83.4
77.5°	67.1	68.9	67.1	67.1	67.1
80°	52.6	50.8	50.8	50.8	52.6
82.5°	36.2	36.2	36.2	36.2	36.2
85°	21.8	21.8	21.8	21.8	21.8
87.5°	9.0	9.0	9.0	9.0	9.0
90°	0.0	0.0	0.0	0.0	0.0

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— 0°-180°    - - 45°-225°    - - - - 90°-270°

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