

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: P580285

Luminaire Tested: **HCC4W30D010MB-HM43040830-41WDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580285  
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-HM43040830-41WDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

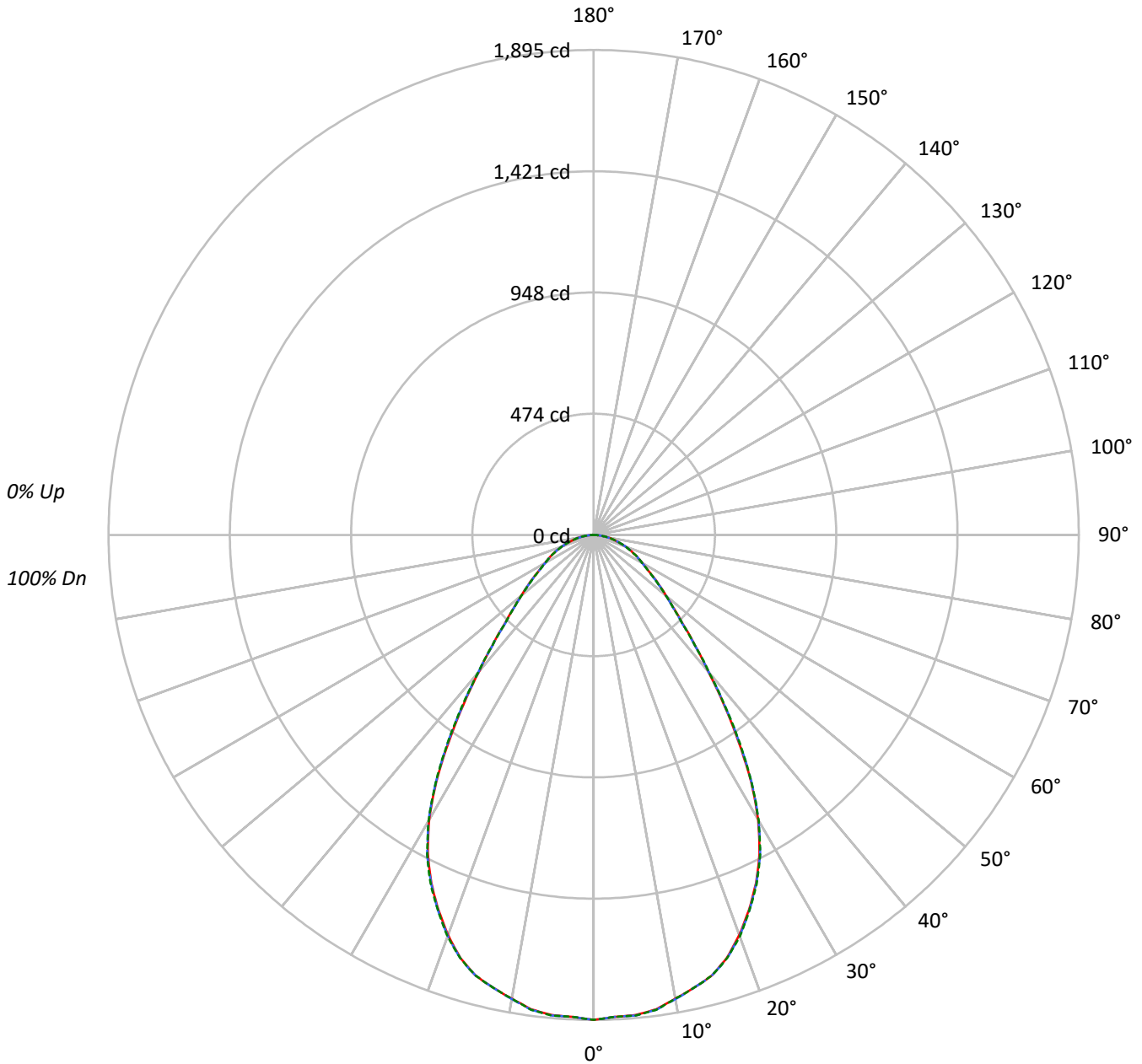
Lumens per Lamp: N/A  
Luminaire Lumens: 2923.6 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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					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								
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°	233715	233715	233715
5°	233159	233395	233395
10°	230457	230695	230457
15°	227683	227683	227683
20°	218328	218853	219115
25°	204227	204486	205016
30°	182991	183546	183546
35°	148575	149764	150050
40°	112116	112760	113066
45°	85893	85526	85526
50°	70750	70386	70386
55°	60751	60321	60321
60°	54198	53705	53705
65°	50959	50959	50959
70°	47388	47388	47388
75°	42987	43940	42987
80°	40417	38997	40417
85°	33399	33399	33399



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.5	6.1
10°-20°	499.6	17.1
20°-30°	686.5	23.5
30°-40°	617.3	21.1
40°-50°	390.0	13.3
50°-60°	254.7	8.7
60°-70°	172.5	5.9
70°-80°	97.1	3.3
80°-90°	27.3	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°	1364.7	46.7
0°-40°	1982.0	67.8
0°-60°	2626.6	89.8
0°-90°	2923.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2923.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1895	1895	1895	1895	1895	
5°	1883	1883	1885	1885	1885	178
15°	1783	1783	1783	1783	1783	499
25°	1501	1502	1502	1506	1506	685
35°	987	991	995	998	996	614
45°	492	490	490	490	490	391
55°	282	282	280	282	280	256
65°	175	175	175	175	175	173
75°	90	92	92	92	90	97
85°	24	24	24	24	24	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1894.8	1894.8	1894.8	1894.8	1894.8
2.5°	1885.0	1885.0	1885.0	1885.0	1885.0
5°	1883.1	1883.1	1885.0	1885.0	1885.0
7.5°	1869.3	1871.4	1871.4	1871.4	1871.4
10°	1840.0	1840.0	1841.9	1841.9	1840.0
12.5°	1812.5	1812.5	1812.5	1814.4	1812.5
15°	1783.0	1783.0	1783.0	1783.0	1783.0
17.5°	1732.0	1734.0	1734.0	1734.0	1734.0
20°	1663.3	1667.3	1667.3	1669.3	1669.3
22.5°	1585.0	1586.9	1588.9	1590.8	1588.9
25°	1500.6	1502.5	1502.5	1506.4	1506.4
27.5°	1402.6	1404.5	1408.4	1408.4	1408.4
30°	1284.8	1286.8	1288.7	1288.7	1288.7
32.5°	1145.6	1145.6	1149.4	1151.5	1149.4
35°	986.7	990.6	994.6	998.4	996.5
37.5°	835.6	839.6	841.5	841.5	843.5
40°	696.3	700.3	700.3	704.2	702.2
42.5°	586.6	584.5	584.5	588.5	586.6
45°	492.4	490.3	490.3	490.3	490.3
47.5°	423.7	421.8	421.8	421.8	421.8
50°	368.7	366.8	366.8	366.8	366.8
52.5°	323.6	321.7	321.7	321.7	319.8
55°	282.5	282.5	280.5	282.5	280.5
57.5°	245.2	245.2	245.2	245.2	245.2
60°	219.7	217.7	217.7	217.7	217.7
62.5°	196.2	196.2	196.2	196.2	196.2
65°	174.6	174.6	174.6	174.6	174.6
67.5°	153.0	151.0	153.0	153.0	151.0
70°	131.4	129.5	131.4	131.4	131.4
72.5°	109.9	109.9	109.9	111.8	109.9
75°	90.2	92.2	92.2	92.2	90.2
77.5°	72.5	74.6	72.5	72.5	72.5
80°	56.9	54.9	54.9	54.9	56.9
82.5°	39.3	39.3	39.3	39.3	39.3
85°	23.6	23.6	23.6	23.6	23.6
87.5°	9.8	9.8	9.8	9.8	9.8
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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