

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: P580288

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

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580288  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W30D010MB-HM43040830-41WWBB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

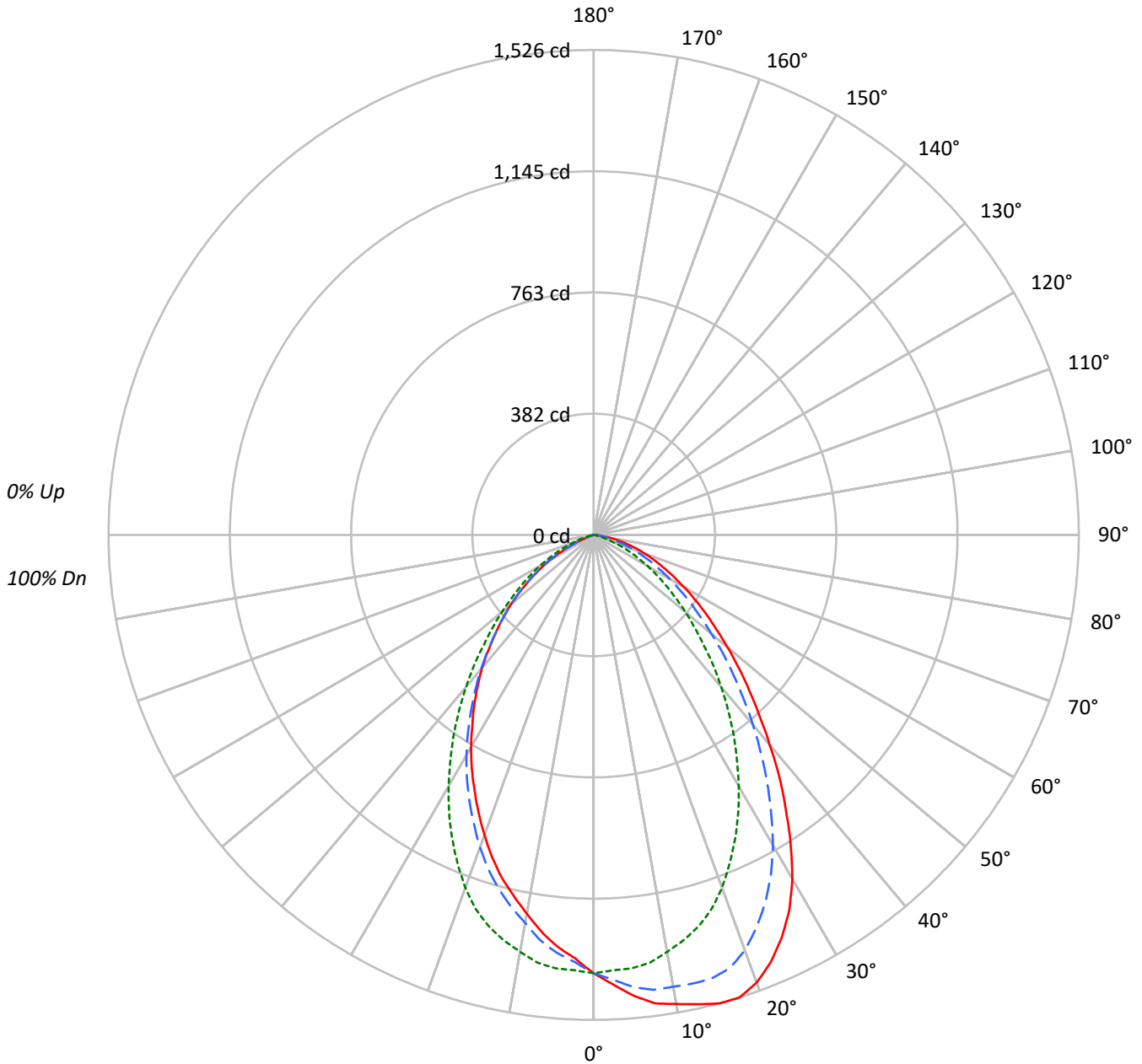
Lumens per Lamp: N/A  
Luminaire Lumens: 2382.0 lumens  
Efficiency: N/A  
Efficacy: 85.1 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.04 / 1.12  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89								
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78								
3	96	87	80	75	94	86	79	74	83	78	73	80	76	72	78	74	71	69								
4	89	79	72	66	87	78	71	65	75	69	65	73	68	64	71	67	63	61								
5	83	72	64	58	81	71	64	58	69	62	58	67	61	57	65	60	56	55								
6	77	66	58	52	75	65	57	52	63	57	52	61	56	51	60	55	51	49								
7	72	60	53	47	71	59	52	47	58	51	47	57	51	46	55	50	46	44								
8	68	56	48	43	66	55	48	43	54	47	42	53	47	42	51	46	42	40								
9	64	52	44	39	62	51	44	39	50	43	39	49	43	39	48	43	39	37								
10	60	48	41	36	59	47	41	36	46	40	36	46	40	36	45	39	36	34								

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

	0°	90°	180°
0°	170094	170094	170094
5°	180228	169530	161036
10°	187710	166818	151588
15°	194891	162826	142535
20°	196722	155007	131839
25°	190345	143364	120663
30°	177977	129922	109797
35°	158618	115493	98643
40°	138651	100442	87818
45°	120798	85195	75967
50°	105387	72266	65128
55°	92362	59890	52729
60°	80816	48401	38706
65°	70426	36074	21773
70°	61561	23333	7069
75°	50469	12153	1859
80°	37647	5612	1350
85°	22219	2689	2689



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.2	5.5
10°-20°	364.3	15.3
20°-30°	503.6	21.1
30°-40°	506.4	21.3
40°-50°	408.7	17.2
50°-60°	276.3	11.6
60°-70°	140.6	5.9
70°-80°	45.0	1.9
80°-90°	6.9	0.3
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°	998.1	41.9
0°-40°	1504.5	63.2
0°-60°	2189.5	91.9
0°-90°	2382.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2382.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1379	1379	1379	1379	1379	
5°	1456	1428	1369	1320	1301	140
15°	1526	1444	1275	1154	1116	430
25°	1399	1277	1053	924	887	640
35°	1053	951	767	671	655	658
45°	692	620	488	436	436	537
55°	430	371	278	243	245	386
65°	241	196	124	80	75	242
75°	106	75	26	6	4	114
85°	16	8	2	2	2	21
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1379.0	1379.0	1379.0	1379.0	1379.0	1379.0	1379.0	1379.0	1379.0
2.5°	1416.3	1408.4	1400.6	1386.9	1371.2	1355.5	1345.7	1337.8	1333.9
5°	1455.6	1445.8	1428.0	1398.6	1369.2	1341.8	1320.2	1306.4	1300.6
7.5°	1486.9	1473.2	1443.7	1402.6	1357.4	1314.3	1286.8	1267.2	1259.4
10°	1498.7	1483.0	1443.7	1388.8	1331.9	1279.0	1239.8	1220.2	1210.3
12.5°	1512.4	1494.7	1445.8	1377.1	1306.4	1243.6	1198.6	1173.0	1163.2
15°	1526.2	1502.6	1443.7	1359.5	1275.1	1202.4	1153.5	1127.9	1116.2
17.5°	1526.2	1498.7	1428.0	1330.0	1233.9	1157.3	1102.4	1073.1	1063.3
20°	1498.7	1467.3	1390.8	1282.9	1180.9	1098.6	1045.5	1016.1	1004.4
22.5°	1455.6	1420.3	1337.8	1226.0	1118.2	1037.8	984.7	957.3	945.5
25°	1398.6	1363.3	1277.0	1161.3	1053.4	973.0	923.9	898.5	886.6
27.5°	1331.9	1292.7	1206.4	1090.7	984.7	908.3	863.1	839.6	829.8
30°	1249.6	1212.3	1127.9	1014.2	912.2	841.5	800.3	778.8	770.9
32.5°	1153.5	1122.0	1039.7	933.8	837.7	772.9	735.6	718.0	710.1
35°	1053.4	1024.0	951.4	853.3	767.0	706.2	670.9	659.1	655.1
37.5°	959.3	933.8	863.1	772.9	694.4	641.5	610.0	602.2	598.3
40°	861.1	843.5	778.8	696.4	623.8	576.7	551.3	545.4	545.4
42.5°	772.9	753.3	696.4	621.9	557.1	510.0	492.4	486.5	488.4
45°	692.5	672.9	619.8	551.3	488.4	449.2	435.5	435.5	435.5
47.5°	617.9	600.2	551.3	480.6	429.5	398.2	384.5	384.5	386.5
50°	549.2	537.5	482.6	421.8	376.6	347.2	337.4	335.5	339.4
52.5°	484.5	470.8	421.8	366.8	323.6	300.2	290.3	288.3	290.3
55°	429.5	413.9	370.8	317.8	278.5	255.0	243.2	241.3	245.2
57.5°	376.6	364.9	319.8	272.6	235.4	211.8	202.0	198.1	200.1
60°	327.6	315.8	274.7	229.5	196.2	172.6	158.9	155.0	156.9
62.5°	282.5	272.6	233.4	190.3	156.9	135.4	121.6	111.8	115.7
65°	241.3	231.5	196.2	153.0	123.6	100.1	80.4	72.5	74.6
67.5°	206.0	194.2	160.9	121.6	92.2	66.7	45.1	41.2	41.2
70°	170.7	158.9	129.5	94.2	64.7	35.3	19.6	19.6	19.6
72.5°	137.3	127.5	100.1	70.6	41.2	15.7	7.9	7.9	7.9
75°	105.9	98.1	74.6	49.1	25.5	7.9	5.9	3.9	3.9
77.5°	78.5	70.6	53.0	33.4	15.7	3.9	3.9	3.9	3.9
80°	53.0	47.0	35.3	19.6	7.9	1.9	1.9	1.9	1.9
82.5°	31.4	27.4	19.6	9.8	3.9	1.9	1.9	1.9	1.9
85°	15.7	11.7	7.9	3.9	1.9	1.9	1.9	1.9	1.9
87.5°	3.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report



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

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