

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: P580236

Luminaire Tested: **HCC4W25D010MW-HM40525935-41WWWB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580236  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W25D010MW-HM40525935-41WWWB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

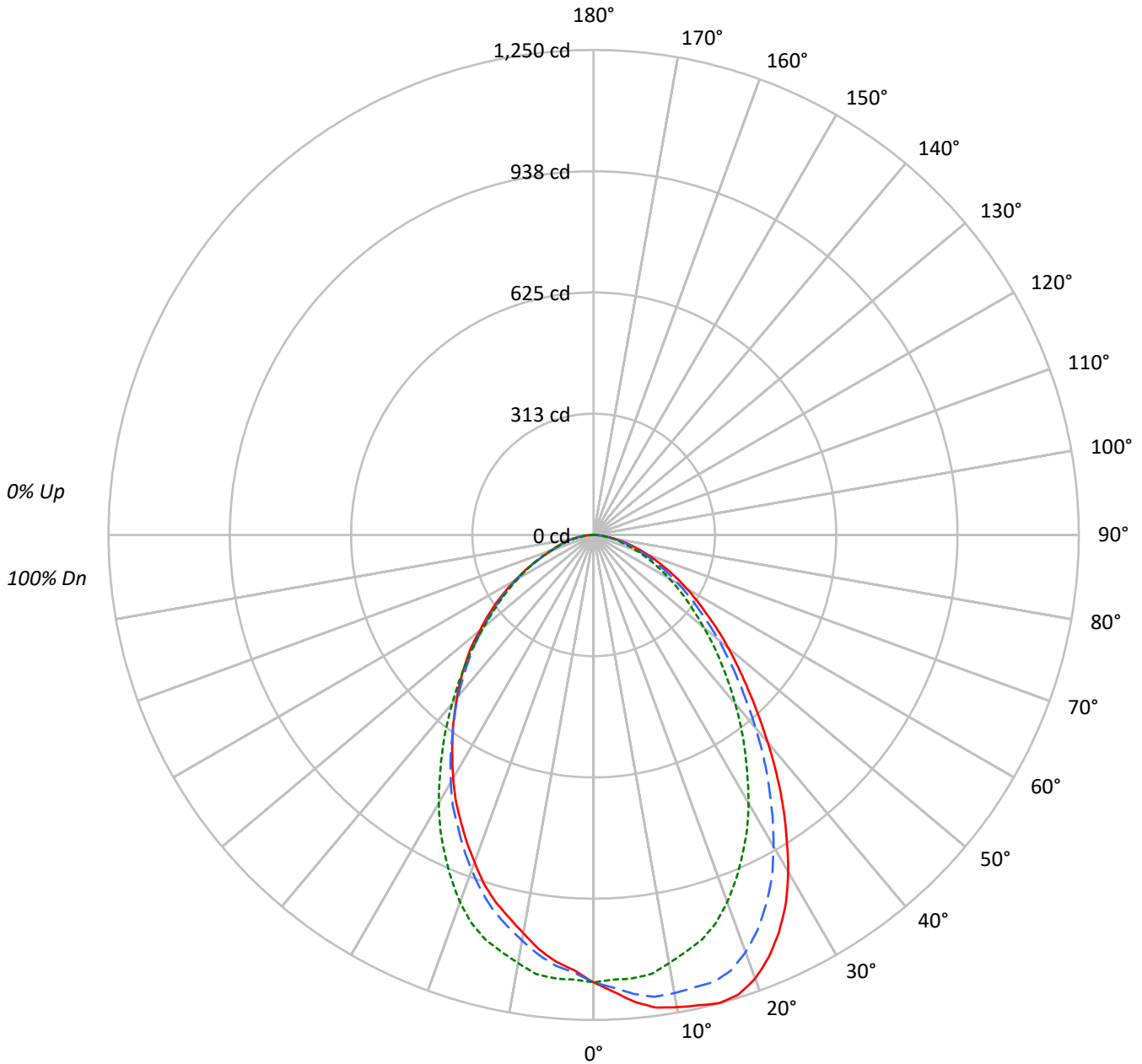
Lumens per Lamp: N/A  
Luminaire Lumens: 2236.6 lumens  
Efficiency: N/A  
Efficacy: 83.5 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.15  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 26.8  
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				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
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87				87
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75				75
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66				66
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	60	58				58
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51				51
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46				46
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41				41
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37				37
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34				34
10	58	45	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31				31

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

	0°	90°	180°
0°	142255	142255	142255
5°	149571	142067	136743
10°	154820	140378	130546
15°	159557	137810	124964
20°	159732	132141	117768
25°	153735	123508	110415
30°	142755	113657	103103
35°	127961	102317	95406
40°	112277	91296	88205
45°	98138	80817	81357
50°	86639	70731	73283
55°	76406	62708	65890
60°	68284	55506	57701
65°	60503	48828	48828
70°	52834	41654	41654
75°	45131	35314	39508
80°	35800	31538	35800
85°	23068	27172	33541



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.3	4.9
10°-20°	307.7	13.8
20°-30°	431.1	19.3
30°-40°	444.1	19.9
40°-50°	378.1	16.9
50°-60°	280.2	12.5
60°-70°	175.8	7.9
70°-80°	87.4	3.9
80°-90°	22.9	1.0
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°	848.1	37.9
0°-40°	1292.2	57.8
0°-60°	1950.5	87.2
0°-90°	2236.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2236.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1153	1153	1153	1153	1153	
5°	1208	1187	1147	1115	1104	116
15°	1250	1193	1079	1001	979	351
25°	1130	1051	908	829	811	517
35°	850	786	680	635	634	530
45°	563	524	463	454	466	437
55°	355	327	292	298	306	321
65°	207	186	167	164	167	207
75°	95	84	74	80	83	101
85°	16	16	19	22	24	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°	1153.3	1153.3	1153.3	1153.3	1153.3	1153.3	1153.3	1153.3	1153.3
2.5°	1178.5	1174.0	1168.1	1157.7	1147.4	1138.5	1129.6	1125.2	1123.7
5°	1208.0	1199.2	1187.4	1168.1	1147.4	1129.6	1114.8	1107.4	1104.4
7.5°	1228.8	1219.9	1200.7	1171.0	1141.4	1114.8	1091.1	1080.8	1077.7
10°	1236.1	1225.9	1199.2	1159.3	1120.8	1088.1	1061.5	1048.2	1042.3
12.5°	1242.1	1228.8	1194.7	1147.4	1100.0	1060.0	1031.9	1014.1	1009.7
15°	1249.5	1234.7	1193.2	1135.5	1079.2	1031.9	1000.7	984.5	978.6
17.5°	1242.1	1225.9	1177.0	1111.8	1048.2	996.3	962.2	947.5	941.6
20°	1216.9	1199.2	1144.4	1074.8	1006.7	953.4	919.3	904.6	897.2
22.5°	1178.5	1159.3	1102.9	1029.0	959.3	907.5	875.0	860.2	855.7
25°	1129.6	1110.4	1051.1	975.7	907.5	857.1	829.0	815.7	811.3
27.5°	1071.9	1052.6	994.9	920.8	855.7	808.4	786.1	772.8	769.9
30°	1002.3	983.0	926.8	858.7	798.0	753.6	735.8	725.4	723.9
32.5°	925.3	909.0	857.1	795.0	737.2	700.2	686.9	679.5	678.1
35°	849.8	832.1	786.1	729.9	679.5	646.9	635.1	633.6	633.6
37.5°	772.8	755.1	718.0	666.2	623.3	593.6	589.2	590.7	590.7
40°	697.3	681.0	648.5	605.5	567.0	544.9	543.3	546.3	547.8
42.5°	626.3	612.9	583.4	546.3	513.7	496.0	497.4	503.3	507.8
45°	562.6	550.7	524.1	491.6	463.3	450.0	454.5	461.9	466.4
47.5°	504.9	494.5	469.3	439.7	416.0	407.1	413.1	421.9	427.9
50°	451.5	442.7	419.0	387.9	368.6	362.7	370.1	379.0	381.9
52.5°	404.2	395.3	370.1	343.4	328.7	325.7	333.1	340.5	344.9
55°	355.3	348.0	327.2	303.5	291.6	290.2	297.6	303.5	306.4
57.5°	315.3	308.0	288.7	267.9	257.6	256.2	263.5	267.9	269.5
60°	276.8	269.5	251.7	232.5	225.0	225.0	229.5	232.5	233.9
62.5°	241.3	233.9	217.7	201.3	195.4	195.4	195.4	196.9	201.3
65°	207.3	201.3	186.5	171.7	167.3	164.4	164.4	164.4	167.3
67.5°	176.1	170.3	158.4	145.1	140.7	136.2	134.7	137.7	137.7
70°	146.5	142.1	130.3	119.9	115.5	111.0	109.5	115.5	115.5
72.5°	119.9	115.5	108.0	97.7	93.3	91.8	94.7	97.7	99.2
75°	94.7	90.3	84.3	78.5	74.1	75.5	79.9	81.4	82.9
77.5°	71.0	69.5	63.7	59.3	59.3	60.7	63.7	66.6	68.1
80°	50.4	48.9	46.0	42.9	44.4	47.4	48.9	51.8	50.4
82.5°	31.0	31.0	29.6	29.6	31.0	34.1	35.6	37.0	38.5
85°	16.3	16.3	16.3	17.7	19.2	20.8	22.2	23.7	23.7
87.5°	4.4	5.9	5.9	7.5	8.9	8.9	10.4	10.4	10.4
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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