

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: P580215

Luminaire Tested: **HCC4W25D010MB-HM40525930-41RWWH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580215  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4W25D010MB-HM40525930-41RWWH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

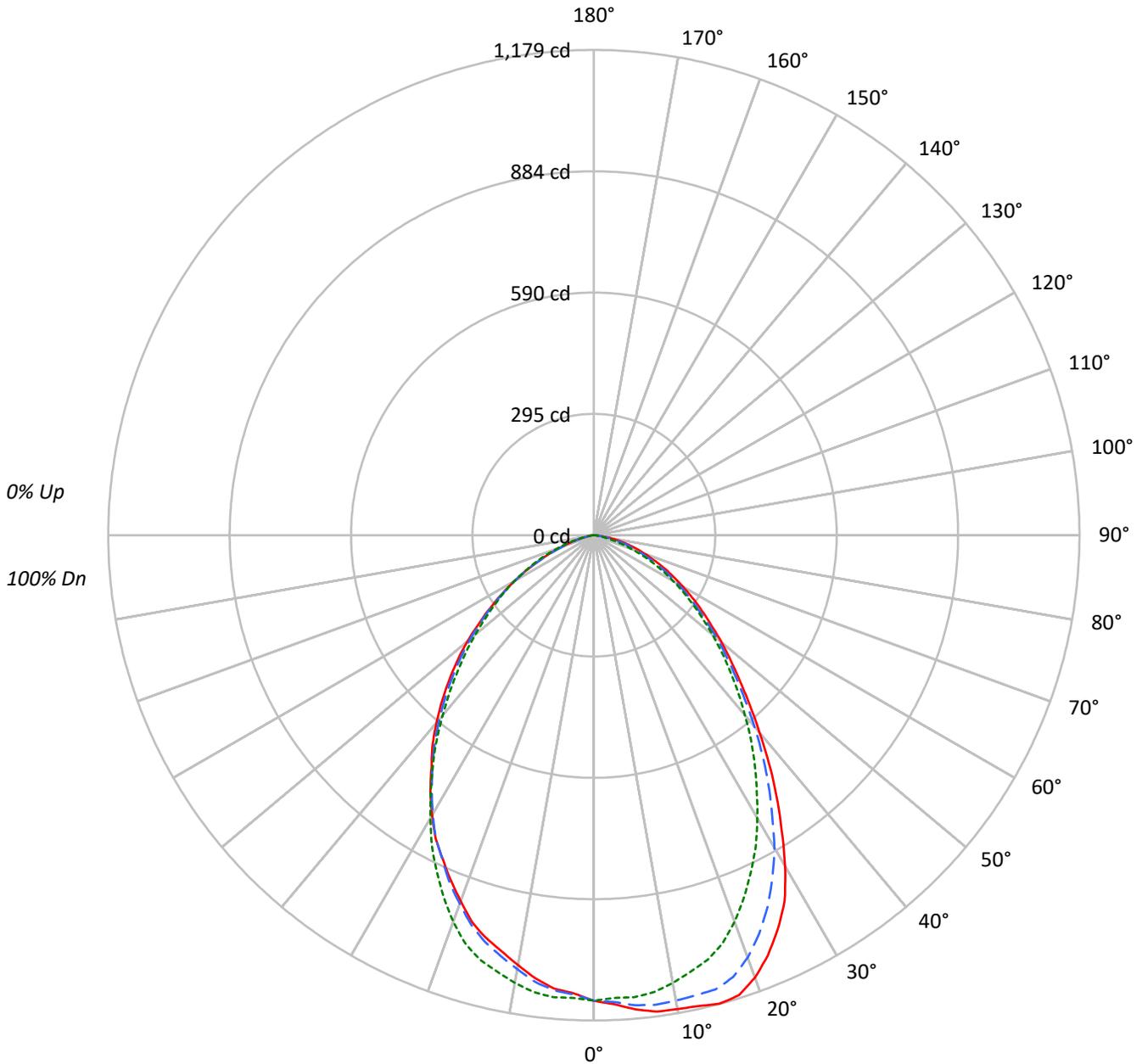
Lumens per Lamp: N/A  
Luminaire Lumens: 2155.6 lumens  
Efficiency: N/A  
Efficacy: 80.4 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.08 / 1.16  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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					
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	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88								
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77								
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67								
4	88	77	70	64	86	76	69	63	74	67	62	71	66	62	69	65	61	59								
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52								
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47								
7	71	58	51	45	69	58	50	45	56	49	45	55	49	44	54	48	44	42								
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38								
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	37	35								
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32								

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

	0°	90°	180°
0°	139492	139492	139492
5°	143157	139504	136892
10°	146403	138312	132851
15°	150516	136342	129344
20°	150111	131117	124108
25°	143786	122759	118159
30°	132258	113059	111848
35°	116351	102603	103447
40°	100667	91844	95692
45°	87480	81619	86521
50°	77639	71998	76853
55°	68879	63159	65869
60°	61352	54765	54765
65°	54520	45501	42641
70°	47099	34441	30402
75°	39508	22780	18729
80°	29904	11010	9944
85°	15992	3963	3963



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.1	5.0
10°-20°	303.6	14.1
20°-30°	428.2	19.9
30°-40°	442.4	20.5
40°-50°	375.0	17.4
50°-60°	272.9	12.7
60°-70°	159.4	7.4
70°-80°	59.2	2.7
80°-90°	7.7	0.4
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°	839.0	38.9
0°-40°	1281.3	59.4
0°-60°	1929.2	89.5
0°-90°	2155.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2155.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1131	1131	1131	1131	1131	
5°	1156	1146	1127	1110	1106	111
15°	1179	1142	1068	1023	1013	331
25°	1056	998	902	870	868	483
35°	773	739	681	683	687	483
45°	502	488	468	485	496	390
55°	320	305	294	304	306	288
65°	187	171	156	146	146	185
75°	83	69	48	38	39	89
85°	11	7	3	3	3	16
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°	1130.9	1130.9	1130.9	1130.9	1130.9	1130.9	1130.9	1130.9	1130.9
2.5°	1140.7	1138.0	1135.2	1130.9	1125.4	1121.1	1116.9	1114.1	1114.1
5°	1156.2	1152.0	1146.4	1136.6	1126.7	1118.3	1109.9	1105.6	1105.6
7.5°	1167.5	1161.9	1150.7	1136.6	1119.7	1107.1	1094.5	1088.8	1086.0
10°	1168.9	1163.3	1147.9	1126.7	1104.3	1084.6	1070.5	1062.2	1060.7
12.5°	1171.7	1164.7	1145.0	1115.5	1086.0	1062.2	1046.7	1038.2	1035.4
15°	1178.7	1168.9	1142.2	1104.3	1067.7	1039.6	1022.8	1015.8	1012.9
17.5°	1171.7	1157.7	1125.4	1080.3	1039.6	1008.8	991.8	984.8	984.8
20°	1143.6	1129.6	1091.6	1042.4	998.9	969.4	952.5	948.4	945.5
22.5°	1104.3	1088.8	1048.1	996.1	952.5	925.9	914.6	909.0	907.6
25°	1056.5	1041.1	997.5	944.1	902.0	879.5	869.7	869.7	868.2
27.5°	1003.1	983.5	938.5	892.1	851.4	834.6	830.3	830.3	831.7
30°	928.6	914.6	876.7	831.7	793.8	782.5	782.5	785.3	785.3
32.5°	848.6	838.7	805.0	765.7	736.2	729.1	731.9	737.6	738.9
35°	772.7	761.5	738.9	703.8	681.4	678.5	682.8	687.0	687.0
37.5°	698.3	687.0	671.5	643.4	626.6	627.9	633.6	639.2	643.4
40°	625.2	616.8	605.5	583.0	570.4	576.0	583.0	588.7	594.3
42.5°	560.5	552.1	543.7	526.8	518.4	525.4	533.9	539.4	545.1
45°	501.5	496.0	487.5	473.5	467.9	474.9	484.7	490.3	496.0
47.5°	450.9	448.2	436.9	424.3	421.5	428.5	436.9	443.9	448.2
50°	404.6	400.5	390.5	377.9	375.2	386.3	392.0	396.2	400.5
52.5°	359.7	355.4	344.2	332.9	332.9	341.4	345.6	347.1	351.2
55°	320.3	316.1	304.8	296.5	293.7	300.7	303.5	303.5	306.3
57.5°	283.8	279.5	268.4	258.5	257.1	261.4	261.4	261.4	262.7
60°	248.7	244.4	233.3	224.8	222.0	223.4	222.0	220.6	222.0
62.5°	216.3	212.1	200.8	191.0	188.2	188.2	184.0	182.7	184.0
65°	186.8	179.8	171.4	161.6	155.9	151.7	146.1	146.1	146.1
67.5°	157.4	151.7	141.9	132.1	125.1	118.0	109.6	112.4	113.8
70°	130.6	126.4	115.2	105.3	95.5	87.2	80.0	82.9	84.3
72.5°	106.8	101.2	91.3	80.0	71.7	60.4	56.2	59.0	59.0
75°	82.9	77.2	68.9	57.6	47.8	37.9	37.9	39.3	39.3
77.5°	61.9	56.2	47.8	37.9	29.5	22.5	23.9	23.9	23.9
80°	42.1	37.9	30.9	22.5	15.5	12.6	12.6	12.6	14.0
82.5°	23.9	21.1	16.8	11.3	7.0	7.0	7.0	7.0	7.0
85°	11.3	8.5	7.0	4.2	2.8	2.8	2.8	2.8	2.8
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

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