

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: P580128

Luminaire Tested: **HCC4S25D010MW-HM40525827-41WWWB**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580128  
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: HCC4S25D010MW-HM40525827-41WWWB  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

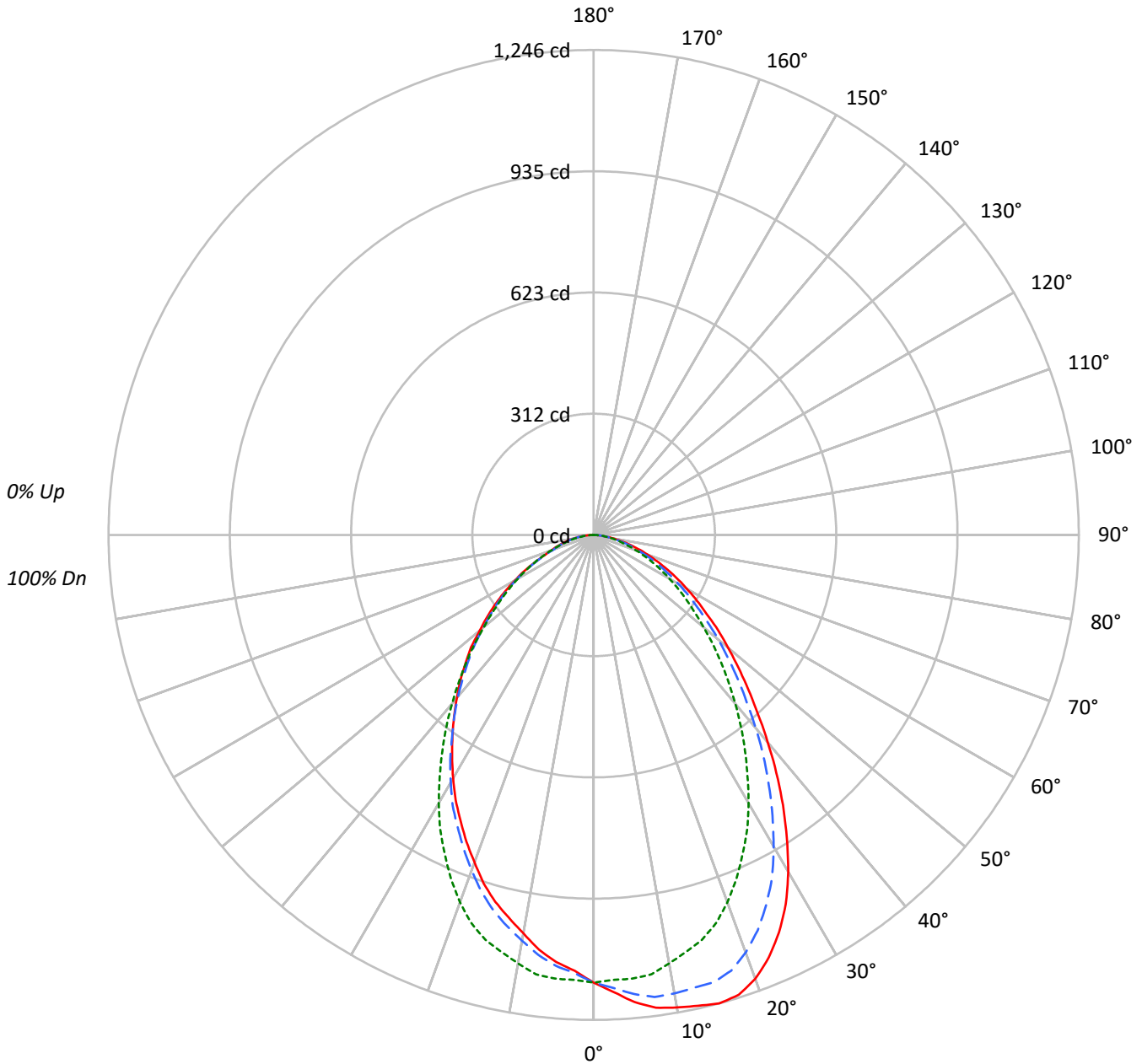
Lumens per Lamp: N/A  
Luminaire Lumens: 2230.7 lumens  
Efficiency: N/A  
Efficacy: 83.2 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.15  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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

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

	0°	90°	180°
0°	141872	141872	141872
5°	149187	141696	136397
10°	154431	139990	130196
15°	159136	137453	124632
20°	159325	131787	117453
25°	153327	123181	110130
30°	142370	113344	102832
35°	127614	102046	95165
40°	111987	91055	87963
45°	97877	80625	81131
50°	86428	70559	73092
55°	76212	62536	65718
60°	68136	55358	57553
65°	60328	48712	48712
70°	52725	41546	41546
75°	45036	35171	39365
80°	35658	31467	35658
85°	23068	27172	33399



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.0	4.9
10°-20°	306.9	13.8
20°-30°	430.0	19.3
30°-40°	443.0	19.9
40°-50°	377.1	16.9
50°-60°	279.4	12.5
60°-70°	175.4	7.9
70°-80°	87.1	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°	845.8	37.9
0°-40°	1288.8	57.8
0°-60°	1945.3	87.2
0°-90°	2230.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2230.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1150	1150	1150	1150	1150	
5°	1205	1184	1144	1112	1102	116
15°	1246	1190	1076	998	976	350
25°	1127	1048	905	827	809	515
35°	848	784	678	634	632	528
45°	561	523	462	453	465	435
55°	354	326	291	297	306	320
65°	207	186	167	164	167	206
75°	94	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°	1150.2	1150.2	1150.2	1150.2	1150.2	1150.2	1150.2	1150.2	1150.2
2.5°	1175.4	1170.9	1165.0	1154.6	1144.4	1135.4	1126.6	1122.2	1120.8
5°	1204.9	1196.1	1184.2	1165.0	1144.4	1126.6	1111.8	1104.5	1101.6
7.5°	1225.5	1216.7	1197.5	1168.0	1138.5	1111.8	1088.2	1077.9	1074.9
10°	1233.0	1222.6	1196.1	1156.2	1117.7	1085.3	1058.7	1045.5	1039.5
12.5°	1238.9	1225.5	1191.5	1144.4	1097.0	1057.2	1029.2	1011.5	1007.1
15°	1246.2	1231.5	1190.1	1132.5	1076.4	1029.2	998.1	981.9	976.0
17.5°	1238.9	1222.6	1173.8	1108.9	1045.5	993.7	959.8	945.0	939.1
20°	1213.8	1196.1	1141.4	1072.0	1004.0	951.0	917.0	902.2	894.8
22.5°	1175.4	1156.2	1100.1	1026.3	956.8	905.1	872.6	857.9	853.4
25°	1126.6	1107.4	1048.4	973.1	905.1	854.9	826.9	813.6	809.2
27.5°	1069.1	1049.9	992.3	918.4	853.4	806.2	784.1	770.8	767.8
30°	999.6	980.4	924.3	856.5	795.8	751.6	733.8	723.5	722.0
32.5°	922.8	906.6	854.9	792.9	735.3	698.4	685.1	677.7	676.3
35°	847.5	829.8	784.1	728.0	677.7	645.2	633.5	632.0	632.0
37.5°	770.8	753.0	716.1	664.4	621.6	592.0	587.6	589.1	589.1
40°	695.5	679.2	646.7	603.9	565.5	543.4	541.9	544.9	546.3
42.5°	624.6	611.4	581.8	544.9	512.3	494.6	496.1	502.1	506.5
45°	561.1	549.3	522.7	490.2	462.2	448.9	453.3	460.7	465.1
47.5°	503.5	493.1	468.1	438.5	414.9	406.1	412.0	420.8	426.8
50°	450.4	441.4	417.8	386.9	367.7	361.7	369.2	378.0	380.9
52.5°	403.1	394.2	369.2	342.5	327.7	324.8	332.3	339.6	344.0
55°	354.4	346.9	326.3	302.7	290.8	289.4	296.8	302.7	305.6
57.5°	314.5	307.1	287.9	267.2	257.0	255.5	262.8	267.2	268.7
60°	276.2	268.7	251.0	231.8	224.4	224.4	228.8	231.8	233.3
62.5°	240.7	233.3	217.1	200.8	194.9	194.9	194.9	196.3	200.8
65°	206.7	200.8	186.1	171.3	166.9	163.9	163.9	163.9	166.9
67.5°	175.7	169.8	157.9	144.7	140.2	135.8	134.4	137.3	137.3
70°	146.2	141.8	129.9	119.6	115.2	110.8	109.3	115.2	115.2
72.5°	119.6	115.2	107.8	97.4	93.0	91.6	94.5	97.4	98.9
75°	94.5	90.1	84.1	78.2	73.8	75.3	79.7	81.2	82.6
77.5°	70.9	69.4	63.4	59.0	59.0	60.5	63.4	66.5	68.0
80°	50.2	48.8	45.7	42.8	44.3	47.3	48.8	51.7	50.2
82.5°	31.0	31.0	29.6	29.6	31.0	34.0	35.5	36.9	38.4
85°	16.3	16.3	16.3	17.7	19.2	20.7	22.1	23.6	23.6
87.5°	4.4	5.9	5.9	7.3	8.8	8.8	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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