

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: P592724

Luminaire Tested: **HCC4S25D010MW-HM40525950-41RWWH**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592724  
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: HCC4S25D010MW-HM40525950-41RWWH  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

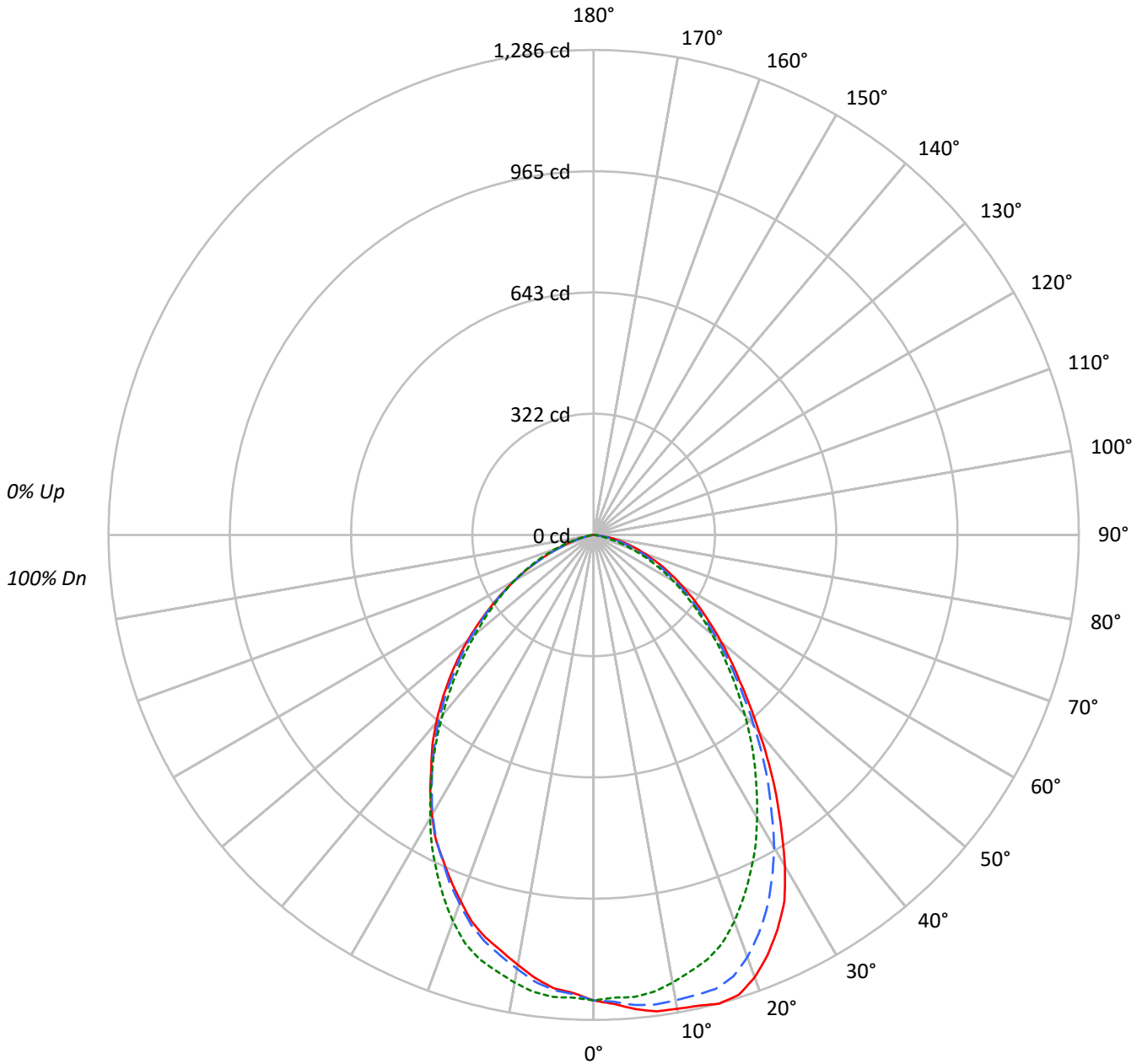
Lumens per Lamp: N/A  
Luminaire Lumens: 2352.8 lumens  
Efficiency: N/A  
Efficacy: 87.8 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.08 / 1.16  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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	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	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88					88			
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77					77			
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67					67			
4	88	77	70	64	86	76	69	63	74	67	62	71	66	62	69	65	61	59					59			
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52					52			
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47					47			
7	71	58	51	45	69	58	50	45	56	49	45	55	49	44	54	48	44	42					42			
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38					38			
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	37	35					35			
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32					32			

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

	0°	90°	180°
0°	152258	152258	152258
5°	156257	152270	149422
10°	159792	150962	145013
15°	164282	148818	141182
20°	163841	143115	135462
25°	156947	133987	128979
30°	144364	123399	122074
35°	126997	111984	112918
40°	109878	100233	104435
45°	95504	89068	94440
50°	84759	78560	83857
55°	75202	68922	71890
60°	66952	59773	59773
65°	59510	49704	46552
70°	51427	37615	33179
75°	43082	24877	20445
80°	32675	11933	10939
85°	17407	4246	4246



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.9	5.0
10°-20°	331.4	14.1
20°-30°	467.4	19.9
30°-40°	482.8	20.5
40°-50°	409.3	17.4
50°-60°	297.8	12.7
60°-70°	174.0	7.4
70°-80°	64.7	2.7
80°-90°	8.5	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°	915.7	38.9
0°-40°	1398.6	59.4
0°-60°	2105.7	89.5
0°-90°	2352.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2352.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1234	1234	1234	1234	1234	
5°	1262	1251	1230	1211	1207	121
15°	1286	1247	1165	1116	1106	362
25°	1153	1089	984	949	948	527
35°	843	807	744	745	750	527
45°	548	532	511	529	541	426
55°	350	333	320	331	334	315
65°	204	187	170	160	160	202
75°	90	75	52	41	43	97
85°	12	8	3	3	3	17
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°	1234.4	1234.4	1234.4	1234.4	1234.4	1234.4	1234.4	1234.4	1234.4
2.5°	1245.2	1242.1	1239.0	1234.4	1228.2	1223.7	1219.1	1216.0	1216.0
5°	1262.0	1257.4	1251.3	1240.5	1229.8	1220.6	1211.4	1206.8	1206.8
7.5°	1274.3	1268.1	1255.9	1240.5	1222.1	1208.4	1194.6	1188.4	1185.3
10°	1275.8	1269.7	1252.9	1229.8	1205.3	1183.8	1168.5	1159.3	1157.8
12.5°	1278.9	1271.3	1249.8	1217.5	1185.3	1159.3	1142.4	1133.2	1130.1
15°	1286.5	1275.8	1246.6	1205.3	1165.4	1134.8	1116.4	1108.7	1105.6
17.5°	1278.9	1263.6	1228.2	1179.2	1134.8	1101.0	1082.6	1074.9	1074.9
20°	1248.2	1232.9	1191.4	1137.8	1090.3	1058.1	1039.7	1035.1	1032.0
22.5°	1205.3	1188.4	1143.9	1087.2	1039.7	1010.6	998.3	992.2	990.6
25°	1153.2	1136.2	1088.7	1030.4	984.5	959.9	949.2	949.2	947.7
27.5°	1094.9	1073.5	1024.3	973.8	929.3	910.9	906.2	906.2	907.8
30°	1013.6	998.3	956.8	907.8	866.4	854.1	854.1	857.1	857.1
32.5°	926.2	915.5	878.7	835.7	803.5	795.8	798.9	805.1	806.6
35°	843.4	831.2	806.6	768.3	743.7	740.6	745.3	749.9	749.9
37.5°	762.1	749.9	732.9	702.4	683.9	685.4	691.6	697.7	702.4
40°	682.4	673.2	660.9	636.4	622.5	628.7	636.4	642.5	648.6
42.5°	611.8	602.7	593.4	575.0	565.9	573.5	582.7	588.9	595.0
45°	547.5	541.4	532.1	516.7	510.6	518.3	529.0	535.1	541.4
47.5°	492.2	489.2	476.9	463.1	460.1	467.7	476.9	484.6	489.2
50°	441.7	437.0	426.3	412.5	409.4	421.7	427.8	432.4	437.0
52.5°	392.6	387.9	375.7	363.4	363.4	372.6	377.2	378.8	383.4
55°	349.7	345.0	332.7	323.6	320.5	328.2	331.2	331.2	334.3
57.5°	309.8	305.2	292.9	282.1	280.7	285.2	285.2	285.2	286.8
60°	271.4	266.8	254.6	245.3	242.3	243.9	242.3	240.7	242.3
62.5°	236.2	231.6	219.3	208.5	205.5	205.5	200.8	199.4	200.8
65°	203.9	196.3	187.1	176.3	170.3	165.6	159.5	159.5	159.5
67.5°	171.7	165.6	154.9	144.2	136.5	128.8	119.6	122.7	124.2
70°	142.6	138.0	125.8	115.0	104.3	95.1	87.4	90.4	92.0
72.5°	116.5	110.4	99.7	87.4	78.2	65.9	61.3	64.4	64.4
75°	90.4	84.3	75.2	62.9	52.2	41.4	41.4	42.9	42.9
77.5°	67.5	61.3	52.2	41.4	32.2	24.5	26.1	26.1	26.1
80°	46.0	41.4	33.8	24.5	16.8	13.8	13.8	13.8	15.4
82.5°	26.1	23.0	18.4	12.3	7.7	7.7	7.7	7.7	7.7
85°	12.3	9.1	7.7	4.6	3.0	3.0	3.0	3.0	3.0
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
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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