

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: P580124

Luminaire Tested: **HCC4S25D010MB-HM40525827-41RWWC**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580124  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S25D010MB-HM40525827-41RWWC  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

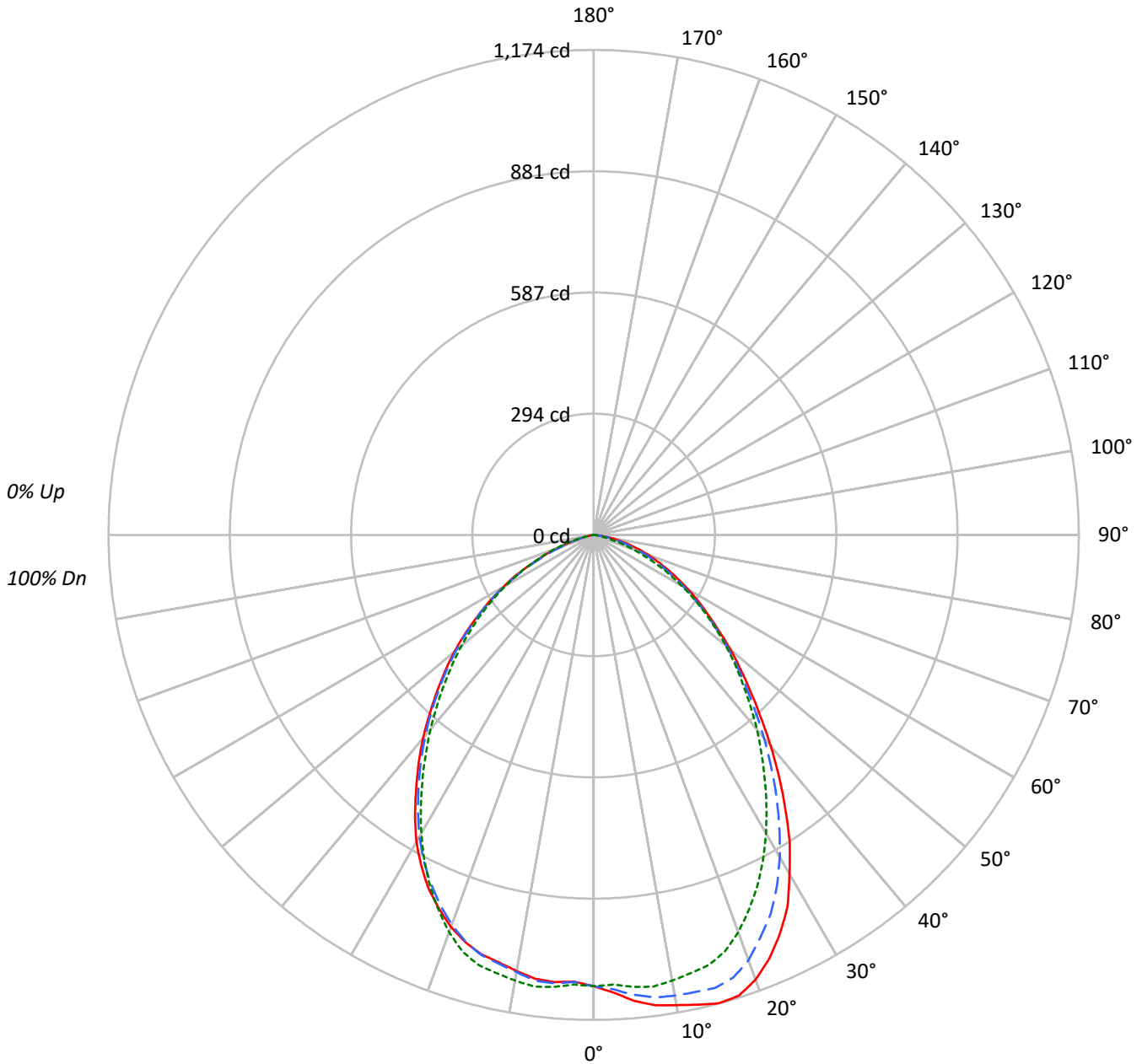
Lumens per Lamp: N/A  
Luminaire Lumens: 2276.5 lumens  
Efficiency: N/A  
Efficacy: 84.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.15 / 1.21  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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			100
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88			88
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76			76
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67			67
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58			58
5	81	70	62	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52			52
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46			46
7	70	58	50	44	69	57	49	44	56	49	44	54	48	44	53	47	43	41			41
8	66	53	45	40	64	53	45	40	51	44	40	50	44	39	49	43	39	37			37
9	62	49	42	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34			34
10	58	46	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°	134743	134743	134743
5°	140198	135988	134527
10°	144775	137197	134241
15°	149865	137606	134222
20°	150373	134294	132548
25°	145066	127577	128598
30°	134993	118799	122160
35°	121606	108702	112692
40°	107205	98896	103405
45°	93742	89102	93481
50°	82993	80153	84432
55°	73008	70793	73653
60°	65200	60464	62265
65°	57292	49120	48274
70°	50057	36208	33034
75°	41462	21779	17585
80°	31467	8453	5185
85°	14718	2123	2123



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.4	4.6
10°-20°	307.5	13.5
20°-30°	445.3	19.6
30°-40°	469.8	20.6
40°-50°	406.6	17.9
50°-60°	301.2	13.2
60°-70°	173.6	7.6
70°-80°	60.6	2.7
80°-90°	6.4	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°	858.2	37.7
0°-40°	1328.0	58.3
0°-60°	2035.8	89.4
0°-90°	2276.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2276.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1092	1092	1092	1092	1092	
5°	1132	1118	1098	1090	1086	109
15°	1174	1135	1078	1053	1051	330
25°	1066	1013	937	932	945	488
35°	808	771	722	738	748	504
45°	537	523	511	530	536	417
55°	340	332	329	341	342	306
65°	196	184	168	159	165	196
75°	87	74	46	37	37	94
85°	10	6	2	2	2	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°	1092.4	1092.4	1092.4	1092.4	1092.4	1092.4	1092.4	1092.4	1092.4
2.5°	1108.7	1105.7	1101.3	1095.4	1089.5	1085.1	1083.6	1082.1	1082.1
5°	1132.3	1126.4	1117.5	1105.7	1098.3	1093.9	1089.5	1086.5	1086.5
7.5°	1148.5	1142.7	1129.3	1113.1	1102.8	1093.9	1088.0	1083.6	1083.6
10°	1155.9	1148.5	1132.3	1111.6	1095.4	1083.6	1074.7	1071.8	1071.8
12.5°	1164.8	1155.9	1133.7	1107.2	1086.5	1071.8	1063.0	1060.0	1060.0
15°	1173.6	1163.3	1135.2	1104.3	1077.6	1060.0	1052.6	1051.1	1051.1
17.5°	1169.2	1155.9	1123.5	1086.5	1057.0	1039.2	1031.9	1031.9	1033.4
20°	1145.6	1132.3	1095.4	1054.0	1023.1	1009.8	1003.9	1006.8	1009.8
22.5°	1110.1	1093.9	1054.0	1014.2	981.7	969.9	969.9	974.3	978.7
25°	1065.9	1051.1	1012.7	968.5	937.4	928.6	931.5	938.9	944.9
27.5°	1015.6	999.4	959.5	918.2	887.3	882.8	890.2	900.5	903.4
30°	947.8	934.5	900.5	860.6	834.1	832.6	842.9	850.4	857.7
32.5°	882.8	868.1	835.6	797.2	778.0	779.5	791.3	800.1	804.5
35°	807.6	794.3	770.7	739.6	721.9	724.8	738.1	746.9	748.4
37.5°	736.7	727.8	704.2	680.6	667.2	673.2	685.0	695.4	695.4
40°	665.8	658.4	640.7	621.5	614.2	621.5	633.4	642.2	642.2
42.5°	597.9	593.5	578.7	565.4	561.0	571.3	581.7	589.0	587.5
45°	537.4	532.9	522.6	512.2	510.8	521.1	530.0	534.4	535.9
47.5°	482.8	479.8	470.9	463.6	463.6	473.8	481.3	485.7	487.2
50°	432.5	429.6	422.2	416.3	417.7	428.1	434.0	438.5	440.0
52.5°	382.4	380.9	374.9	367.6	372.0	379.5	386.8	389.7	391.2
55°	339.5	339.5	332.2	326.3	329.2	336.6	341.1	342.5	342.5
57.5°	301.1	299.6	290.8	285.0	286.4	293.8	296.7	298.2	298.2
60°	264.3	262.8	253.9	245.1	245.1	249.5	251.0	252.4	252.4
62.5°	228.8	227.4	217.0	209.7	206.7	205.3	205.3	208.2	214.1
65°	196.3	194.9	184.5	172.7	168.3	163.8	159.4	162.4	165.4
67.5°	166.9	163.8	153.5	143.2	132.9	125.4	118.1	122.5	128.5
70°	138.8	135.8	124.0	112.2	100.4	88.6	82.6	88.6	91.6
72.5°	112.2	109.3	97.4	85.6	70.9	59.0	57.6	59.0	60.5
75°	87.0	85.6	73.8	60.5	45.7	36.9	36.9	36.9	36.9
77.5°	64.9	62.0	50.2	38.4	26.5	20.7	19.2	19.2	19.2
80°	44.3	41.3	31.0	22.1	11.9	8.8	8.8	7.3	7.3
82.5°	25.1	23.6	16.3	8.8	4.4	2.9	2.9	2.9	2.9
85°	10.4	8.8	5.9	2.9	1.5	1.5	1.5	1.5	1.5
87.5°	1.5	1.5	1.5	0.0	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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