

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: P592722

Luminaire Tested: **HCC4S25D010MB-HM40525950-41WDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P592722  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S25D010MB-HM40525950-41WDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

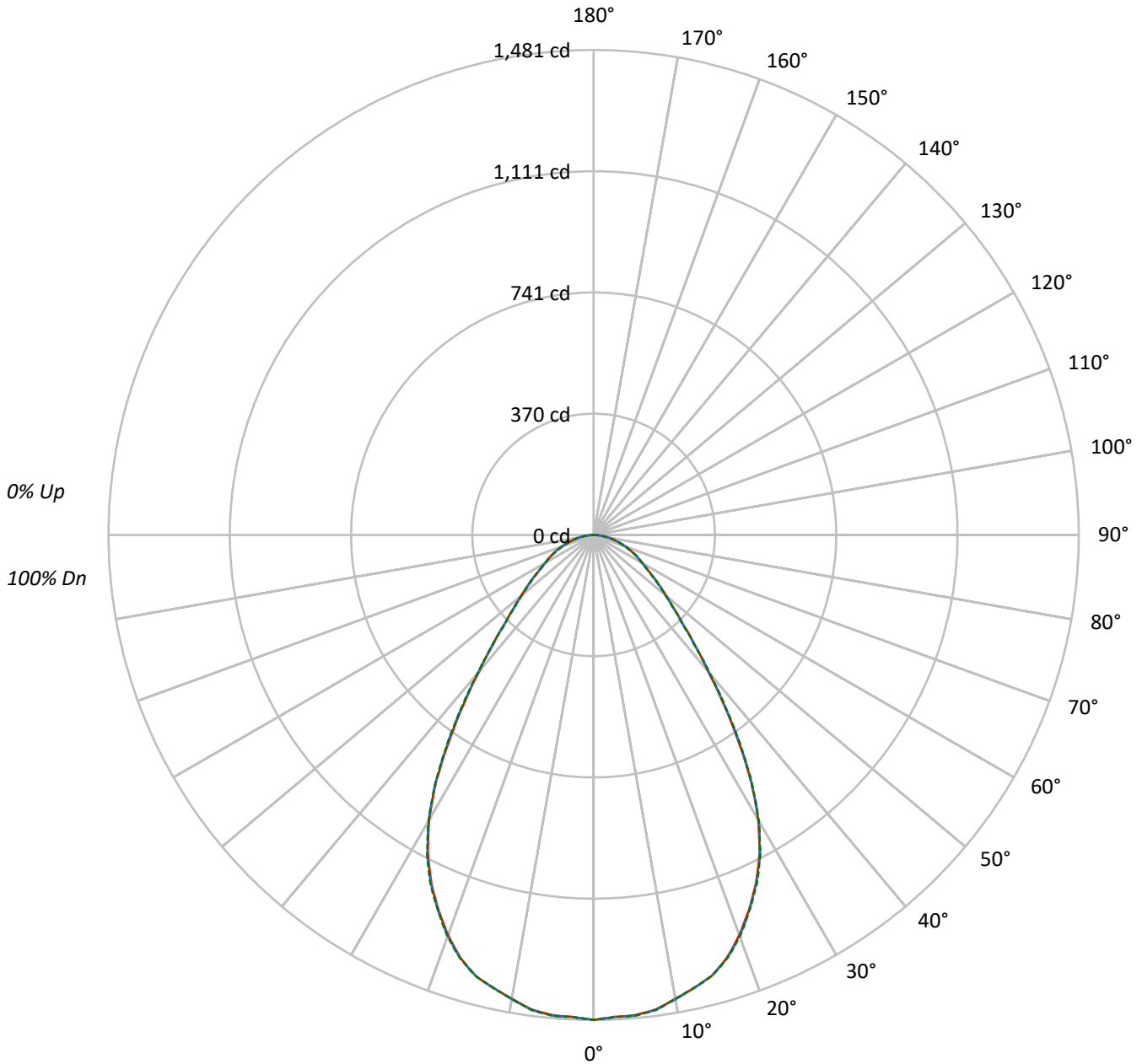
Lumens per Lamp: N/A  
Luminaire Lumens: 2285.4 lumens  
Efficiency: N/A  
Efficacy: 85.3 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (Ain): 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



TEST NUMBER: P592722  
CATALOG NUMBER: HCC4S25D010MB-HM40525950-41WDW

### Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab  
 1121 Highway 74 South  
 Peachtree City, GA 30269



TEST NUMBER: P592722

CATALOG NUMBER: HCC4S25D010MB-HM40525950-41WDW

**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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89								
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78								
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69								
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62								
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56								
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51								
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46								
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42								
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39								
10	61	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36								

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

	0°	45°	90°
0°	182700	182700	182700
5°	182258	182456	182456
10°	180132	180333	180132
15°	177984	177984	177984
20°	170680	171073	171283
25°	159642	159846	160254
30°	143054	143481	143481
35°	116125	117059	117285
40°	87641	88156	88382
45°	67141	66862	66862
50°	55303	55035	55035
55°	47482	47160	47160
60°	42357	42012	42012
65°	39839	39839	39839
70°	37038	37038	37038
75°	33646	34313	33646
80°	31609	30473	31609
85°	26040	26040	26040



TEST NUMBER: P592722  
 CATALOG NUMBER: HCC4S25D010MB-HM40525950-41WDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.6	6.1
10°-20°	390.5	17.1
20°-30°	536.6	23.5
30°-40°	482.5	21.1
40°-50°	304.9	13.3
50°-60°	199.1	8.7
60°-70°	134.9	5.9
70°-80°	75.9	3.3
80°-90°	21.3	0.9
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°	1066.7	46.7
0°-40°	1549.3	67.8
0°-60°	2053.3	89.8
0°-90°	2285.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2285.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1481	1481	1481	1481	1481	
5°	1472	1472	1474	1474	1474	139
15°	1394	1394	1394	1394	1394	390
25°	1173	1174	1174	1178	1178	535
35°	771	774	777	780	779	480
45°	385	383	383	383	383	305
55°	221	221	219	221	219	200
65°	136	136	136	136	136	135
75°	71	72	72	72	71	76
85°	18	18	18	18	18	22
90°	0	0	0	0	0	



TEST NUMBER: P592722

CATALOG NUMBER: HCC4S25D010MB-HM40525950-41WDW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1481.2	1481.2	1481.2	1481.2	1481.2
2.5°	1473.6	1473.6	1473.6	1473.6	1473.6
5°	1472.0	1472.0	1473.6	1473.6	1473.6
7.5°	1461.3	1462.8	1462.8	1462.8	1462.8
10°	1438.2	1438.2	1439.8	1439.8	1438.2
12.5°	1416.8	1416.8	1416.8	1418.4	1416.8
15°	1393.8	1393.8	1393.8	1393.8	1393.8
17.5°	1353.9	1355.5	1355.5	1355.5	1355.5
20°	1300.3	1303.3	1303.3	1304.9	1304.9
22.5°	1239.0	1240.4	1242.0	1243.5	1242.0
25°	1173.0	1174.5	1174.5	1177.5	1177.5
27.5°	1096.4	1097.8	1100.9	1100.9	1100.9
30°	1004.4	1005.8	1007.4	1007.4	1007.4
32.5°	895.5	895.5	898.6	900.0	898.6
35°	771.2	774.4	777.4	780.5	778.9
37.5°	653.2	656.3	657.8	657.8	659.3
40°	544.3	547.5	547.5	550.5	548.9
42.5°	458.5	456.9	456.9	460.0	458.5
45°	384.9	383.3	383.3	383.3	383.3
47.5°	331.2	329.7	329.7	329.7	329.7
50°	288.2	286.8	286.8	286.8	286.8
52.5°	253.0	251.4	251.4	251.4	250.0
55°	220.8	220.8	219.3	220.8	219.3
57.5°	191.7	191.7	191.7	191.7	191.7
60°	171.7	170.3	170.3	170.3	170.3
62.5°	153.3	153.3	153.3	153.3	153.3
65°	136.5	136.5	136.5	136.5	136.5
67.5°	119.6	118.1	119.6	119.6	118.1
70°	102.7	101.2	102.7	102.7	102.7
72.5°	85.9	85.9	85.9	87.4	85.9
75°	70.6	72.0	72.0	72.0	70.6
77.5°	56.8	58.3	56.8	56.8	56.8
80°	44.5	42.9	42.9	42.9	44.5
82.5°	30.7	30.7	30.7	30.7	30.7
85°	18.4	18.4	18.4	18.4	18.4
87.5°	7.7	7.7	7.7	7.7	7.7
90°	0.0	0.0	0.0	0.0	0.0

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



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

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)