

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: P580195

Luminaire Tested: **HCC4S25D010SL-HM40525927-41WDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580195  
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: HCC4S25D010SL-HM40525927-41WDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

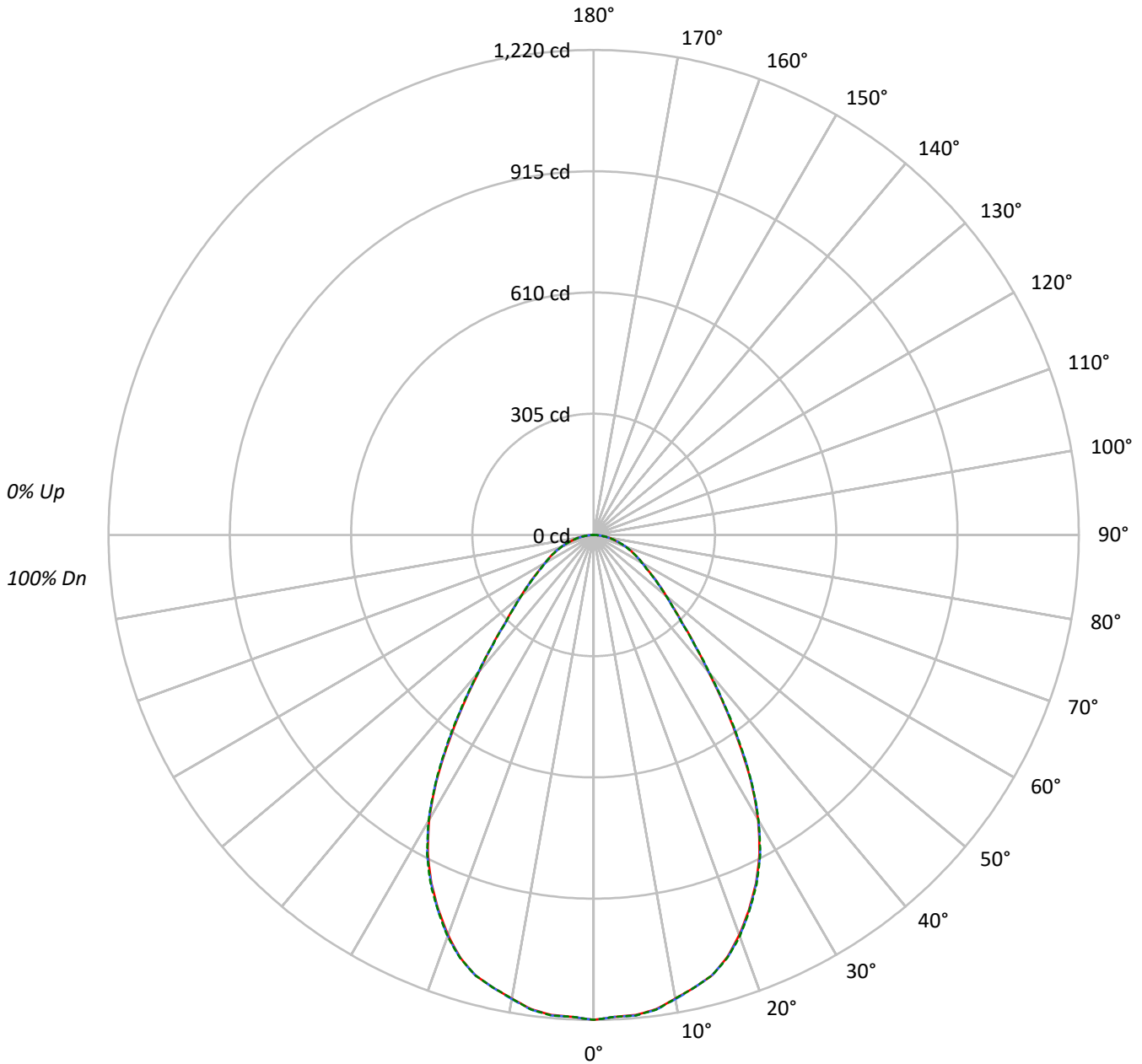
Lumens per Lamp: N/A  
Luminaire Lumens: 1881.9 lumens  
Efficiency: N/A  
Efficacy: 70.2 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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



TEST NUMBER: P580195  
CATALOG NUMBER: HCC4S25D010SL-HM40525927-41WDW

### Luminous Intensity Polar Plot





TEST NUMBER: P580195

CATALOG NUMBER: HCC4S25D010SL-HM40525927-41WDW

**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	68	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°	150457	150457	150457
5°	150091	150239	150239
10°	148344	148507	148344
15°	146558	146558	146558
20°	140542	140883	141054
25°	131470	131633	131973
30°	117802	118158	118158
35°	95647	96384	96595
40°	72167	72586	72795
45°	55279	55070	55070
50°	45555	45306	45306
55°	39117	38816	38816
60°	34907	34561	34561
65°	32776	32776	32776
70°	30510	30510	30510
75°	27641	28308	27641
80°	25998	25074	25998
85°	21370	21370	21370



TEST NUMBER: P580195  
 CATALOG NUMBER: HCC4S25D010SL-HM40525927-41WDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.9	6.1
10°-20°	321.6	17.1
20°-30°	441.9	23.5
30°-40°	397.4	21.1
40°-50°	251.1	13.3
50°-60°	163.9	8.7
60°-70°	111.0	5.9
70°-80°	62.5	3.3
80°-90°	17.5	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°	878.5	46.7
0°-40°	1275.8	67.8
0°-60°	1690.8	89.8
0°-90°	1881.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1881.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1220	1220	1220	1220	1220	
5°	1212	1212	1213	1213	1213	115
15°	1148	1148	1148	1148	1148	321
25°	966	967	967	970	970	441
35°	635	638	640	643	642	395
45°	317	316	316	316	316	251
55°	182	182	180	182	180	165
65°	112	112	112	112	112	111
75°	58	59	59	59	58	62
85°	15	15	15	15	15	18
90°	0	0	0	0	0	



TEST NUMBER: P580195

CATALOG NUMBER: HCC4S25D010SL-HM40525927-41WDW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1219.8	1219.8	1219.8	1219.8	1219.8
2.5°	1213.4	1213.4	1213.4	1213.4	1213.4
5°	1212.2	1212.2	1213.4	1213.4	1213.4
7.5°	1203.3	1204.6	1204.6	1204.6	1204.6
10°	1184.4	1184.4	1185.7	1185.7	1184.4
12.5°	1166.7	1166.7	1166.7	1168.0	1166.7
15°	1147.7	1147.7	1147.7	1147.7	1147.7
17.5°	1115.0	1116.2	1116.2	1116.2	1116.2
20°	1070.7	1073.3	1073.3	1074.6	1074.6
22.5°	1020.3	1021.5	1022.8	1024.0	1022.8
25°	966.0	967.2	967.2	969.7	969.7
27.5°	902.9	904.1	906.6	906.6	906.6
30°	827.1	828.3	829.6	829.6	829.6
32.5°	737.5	737.5	739.9	741.2	739.9
35°	635.2	637.7	640.1	642.7	641.5
37.5°	537.9	540.5	541.7	541.7	542.9
40°	448.2	450.8	450.8	453.3	452.1
42.5°	377.5	376.3	376.3	378.8	377.5
45°	316.9	315.7	315.7	315.7	315.7
47.5°	272.8	271.5	271.5	271.5	271.5
50°	237.4	236.1	236.1	236.1	236.1
52.5°	208.3	207.1	207.1	207.1	205.8
55°	181.9	181.9	180.5	181.9	180.5
57.5°	157.8	157.8	157.8	157.8	157.8
60°	141.5	140.1	140.1	140.1	140.1
62.5°	126.2	126.2	126.2	126.2	126.2
65°	112.3	112.3	112.3	112.3	112.3
67.5°	98.4	97.2	98.4	98.4	97.2
70°	84.6	83.3	84.6	84.6	84.6
72.5°	70.7	70.7	70.7	71.9	70.7
75°	58.0	59.4	59.4	59.4	58.0
77.5°	46.7	48.0	46.7	46.7	46.7
80°	36.6	35.3	35.3	35.3	36.6
82.5°	25.3	25.3	25.3	25.3	25.3
85°	15.1	15.1	15.1	15.1	15.1
87.5°	6.3	6.3	6.3	6.3	6.3
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)