

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: P592614

Luminaire Tested: **HCC4S10D010BZ-HM40525850-41WDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592614
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: HCC4S10D010BZ-HM40525850-41WDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

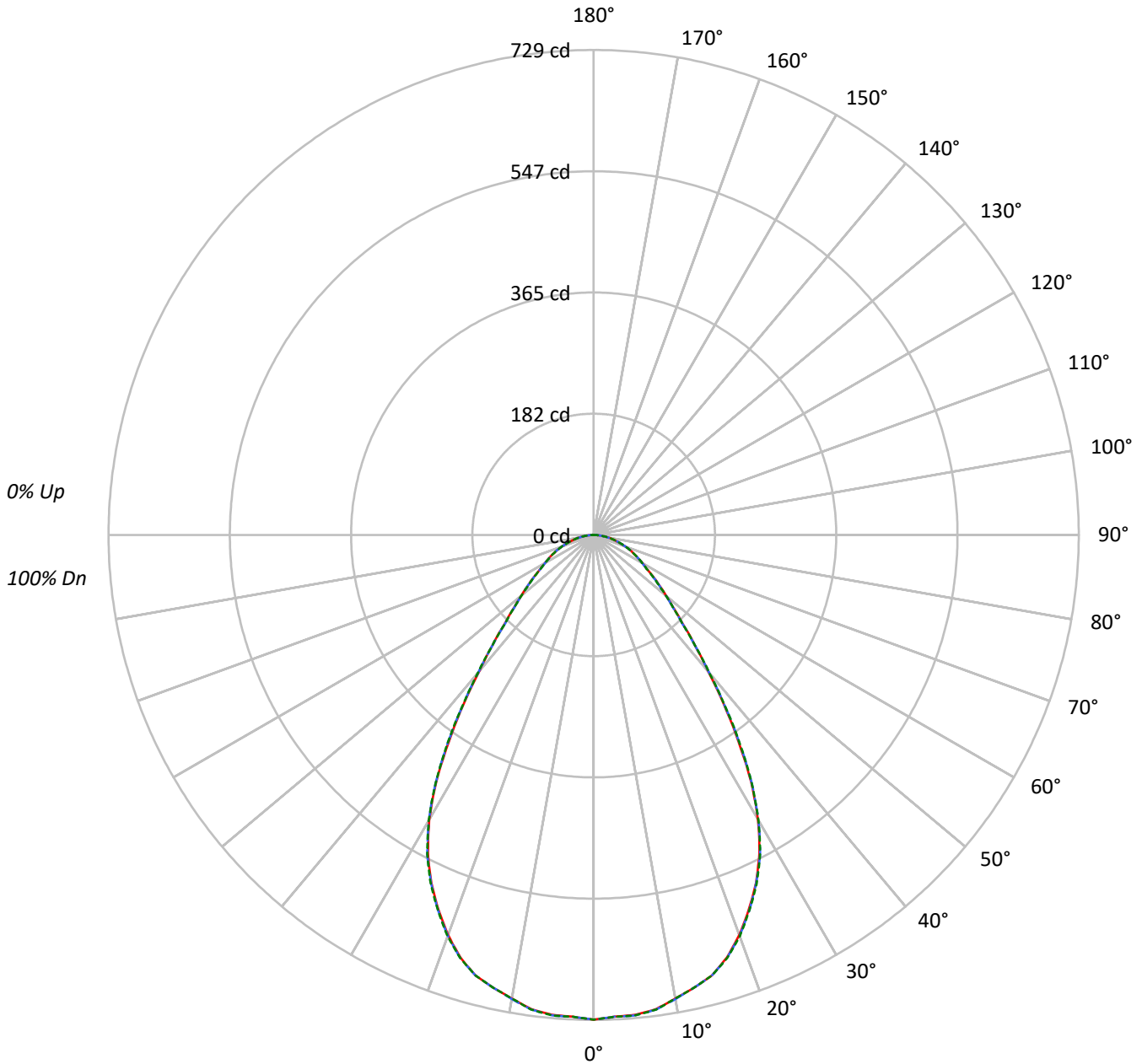
Lumens per Lamp: N/A
Luminaire Lumens: 1124.3 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.07 / 1.04
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): 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: P592614
CATALOG NUMBER: HCC4S10D010BZ-HM40525850-41WDW

Luminous Intensity Polar Plot



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



TEST NUMBER: P592614

CATALOG NUMBER: HCC4S10D010BZ-HM40525850-41WDW

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°	89882	89882	89882
5°	89656	89755	89755
10°	88613	88713	88613
15°	87549	87549	87549
20°	83968	84152	84257
25°	78541	78637	78855
30°	70373	70587	70587
35°	57129	57596	57701
40°	43120	43362	43474
45°	33038	32899	32899
50°	27210	27057	27057
55°	23354	23204	23204
60°	20821	20673	20673
65°	19584	19584	19584
70°	18212	18212	18212
75°	16537	16918	16537
80°	15485	15059	15485
85°	12879	12879	12879



TEST NUMBER: P592614
 CATALOG NUMBER: HCC4S10D010BZ-HM40525850-41WDW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.7	6.1
10°-20°	192.1	17.1
20°-30°	264.0	23.5
30°-40°	237.4	21.1
40°-50°	150.0	13.3
50°-60°	97.9	8.7
60°-70°	66.3	5.9
70°-80°	37.3	3.3
80°-90°	10.5	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°	524.8	46.7
0°-40°	762.2	67.8
0°-60°	1010.1	89.8
0°-90°	1124.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1124.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	729	729	729	729	729	
5°	724	724	725	725	725	69
15°	686	686	686	686	686	192
25°	577	578	578	579	579	263
35°	379	381	382	384	383	236
45°	189	189	189	189	189	150
55°	109	109	108	109	108	98
65°	67	67	67	67	67	66
75°	35	36	36	36	35	37
85°	9	9	9	9	9	11
90°	0	0	0	0	0	

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



TEST NUMBER: P592614

CATALOG NUMBER: HCC4S10D010BZ-HM40525850-41WDW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	728.7	728.7	728.7	728.7	728.7
2.5°	724.9	724.9	724.9	724.9	724.9
5°	724.1	724.1	724.9	724.9	724.9
7.5°	718.9	719.6	719.6	719.6	719.6
10°	707.5	707.5	708.3	708.3	707.5
12.5°	697.0	697.0	697.0	697.7	697.0
15°	685.6	685.6	685.6	685.6	685.6
17.5°	666.1	666.8	666.8	666.8	666.8
20°	639.7	641.1	641.1	641.9	641.9
22.5°	609.5	610.2	611.0	611.8	611.0
25°	577.1	577.8	577.8	579.4	579.4
27.5°	539.3	540.1	541.6	541.6	541.6
30°	494.1	494.8	495.6	495.6	495.6
32.5°	440.5	440.5	442.0	442.8	442.0
35°	379.4	380.9	382.5	384.0	383.2
37.5°	321.4	322.9	323.6	323.6	324.3
40°	267.8	269.3	269.3	270.8	270.0
42.5°	225.6	224.8	224.8	226.2	225.6
45°	189.4	188.6	188.6	188.6	188.6
47.5°	163.0	162.2	162.2	162.2	162.2
50°	141.8	141.0	141.0	141.0	141.0
52.5°	124.5	123.7	123.7	123.7	122.9
55°	108.6	108.6	107.9	108.6	107.9
57.5°	94.3	94.3	94.3	94.3	94.3
60°	84.4	83.8	83.8	83.8	83.8
62.5°	75.4	75.4	75.4	75.4	75.4
65°	67.1	67.1	67.1	67.1	67.1
67.5°	58.8	58.0	58.8	58.8	58.0
70°	50.5	49.7	50.5	50.5	50.5
72.5°	42.2	42.2	42.2	43.0	42.2
75°	34.7	35.5	35.5	35.5	34.7
77.5°	27.9	28.7	27.9	27.9	27.9
80°	21.8	21.2	21.2	21.2	21.8
82.5°	15.1	15.1	15.1	15.1	15.1
85°	9.1	9.1	9.1	9.1	9.1
87.5°	3.8	3.8	3.8	3.8	3.8
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)