

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: P584690

Luminaire Tested: **HCC8S45D010SL-HM82555835-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584690
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8S45D010SL-HM82555835-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5614.5 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

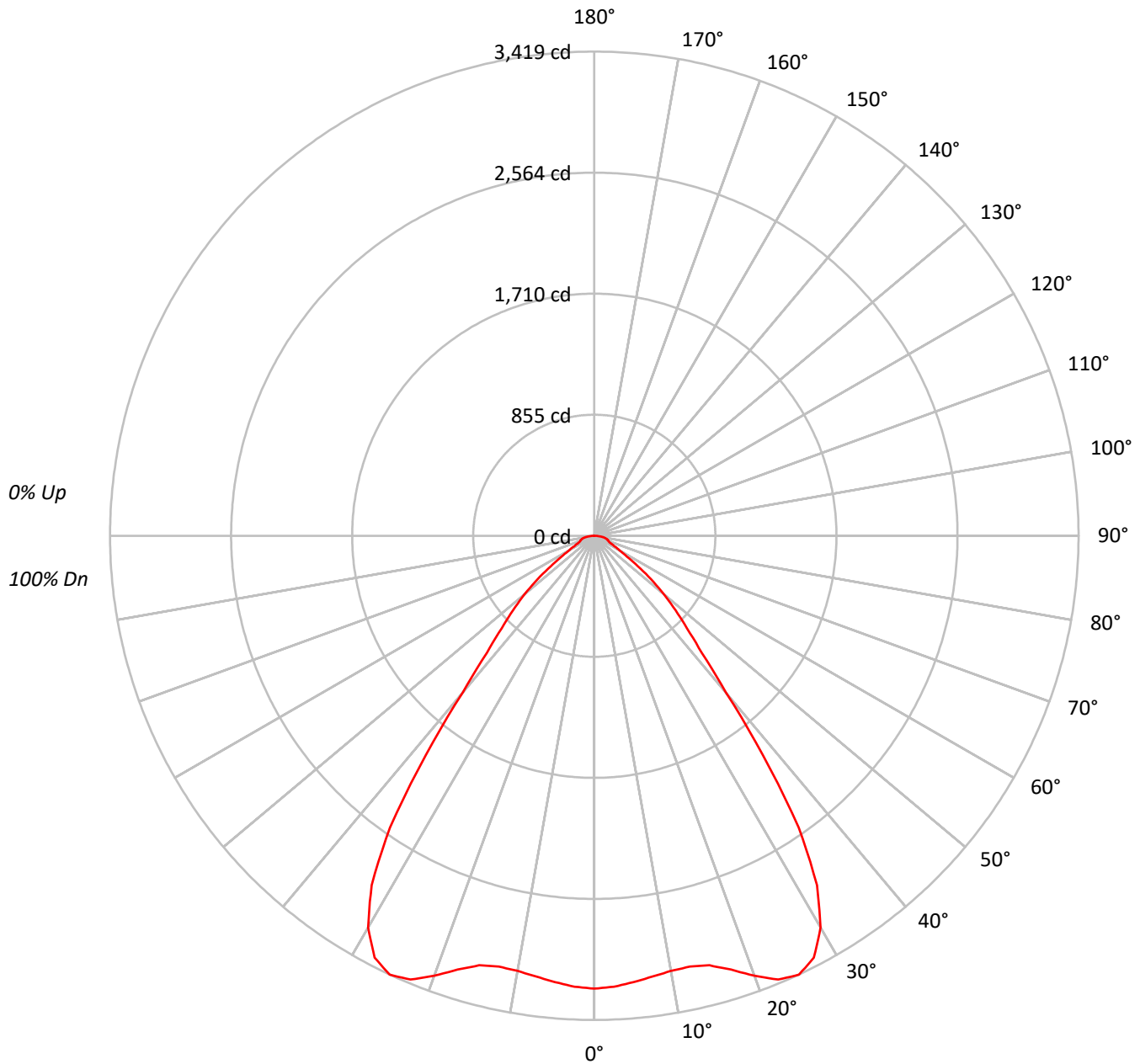
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P584690

CATALOG NUMBER: HCC8S45D010SL-HM82555835-81WDWB

Luminous Intensity Polar Plot





TEST NUMBER: P584690

CATALOG NUMBER: HCC8S45D010SL-HM82555835-81WDWB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20
RC	80					70					50					30					10
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	112	108	105	103		109	106	103	101		102	100	98		98	97	95		95	93	92
2	105	99	94	89		102	97	92	88		93	90	86		90	87	84		88	85	83
3	98	90	84	79		96	88	83	78		86	81	77		83	79	76		81	77	74
4	92	82	75	70		90	81	75	70		79	73	69		77	72	68		75	71	67
5	86	75	68	63		84	74	68	63		73	67	62		71	66	62		69	65	61
6	80	69	62	57		79	69	62	57		67	61	56		65	60	56		64	59	56
7	75	64	57	52		74	63	57	52		62	56	51		61	55	51		59	55	51
8	71	59	52	47		69	59	52	47		58	51	47		56	51	47		55	50	47
9	67	55	48	43		65	55	48	43		54	47	43		53	47	43		52	47	43
10	63	51	45	40		62	51	44	40		50	44	40		49	44	40		48	43	40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	98602
5°	97926
10°	97668
15°	100232
20°	108510
25°	116335
30°	113735
35°	94709
40°	58183
45°	40290
50°	30746
55°	20161
60°	12618
65°	9449
70°	9530
75°	10973
80°	12111
85°	10862



TEST NUMBER: P584690

CATALOG NUMBER: HCC8S45D010SL-HM82555835-81WDWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.6	5.4
10°-20°	901.3	16.1
20°-30°	1551.6	27.6
30°-40°	1503.3	26.8
40°-50°	740.4	13.2
50°-60°	349.4	6.2
60°-70°	137.7	2.5
70°-80°	95.0	1.7
80°-90°	35.2	0.6
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°	2753.5	49.0
0°-40°	4256.7	75.8
0°-60°	5346.5	95.2
0°-90°	5614.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5614.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3198	
5°	3164	301
15°	3140	901
25°	3419	1552
35°	2516	1503
45°	924	740
55°	375	349
65°	130	138
75°	92	95
85°	31	35
90°	0	



TEST NUMBER: P584690

CATALOG NUMBER: HCC8S45D010SL-HM82555835-81WDWB

CANDELA DISTRIBUTION (FULL):

0°	
0°	3197.6
2.5°	3187.4
5°	3163.6
7.5°	3139.7
10°	3119.2
12.5°	3115.8
15°	3139.7
17.5°	3211.2
20°	3306.7
22.5°	3392.0
25°	3419.2
27.5°	3357.8
30°	3194.2
32.5°	2924.9
35°	2515.9
37.5°	1953.4
40°	1445.4
42.5°	1121.5
45°	923.9
47.5°	777.2
50°	640.9
52.5°	504.5
55°	375.0
57.5°	272.7
60°	204.6
62.5°	160.2
65°	129.5
67.5°	112.5
70°	105.7
72.5°	98.9
75°	92.1
77.5°	81.8
80°	68.2
82.5°	51.1
85°	30.7
87.5°	13.6
90°	0.0

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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°

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)