

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: P584775

Luminaire Tested: **HCC8S45D010SL-HM82555940-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584775
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-HM82555940-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5787.5 lumens
Efficiency: N/A
Efficacy: 131.5 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

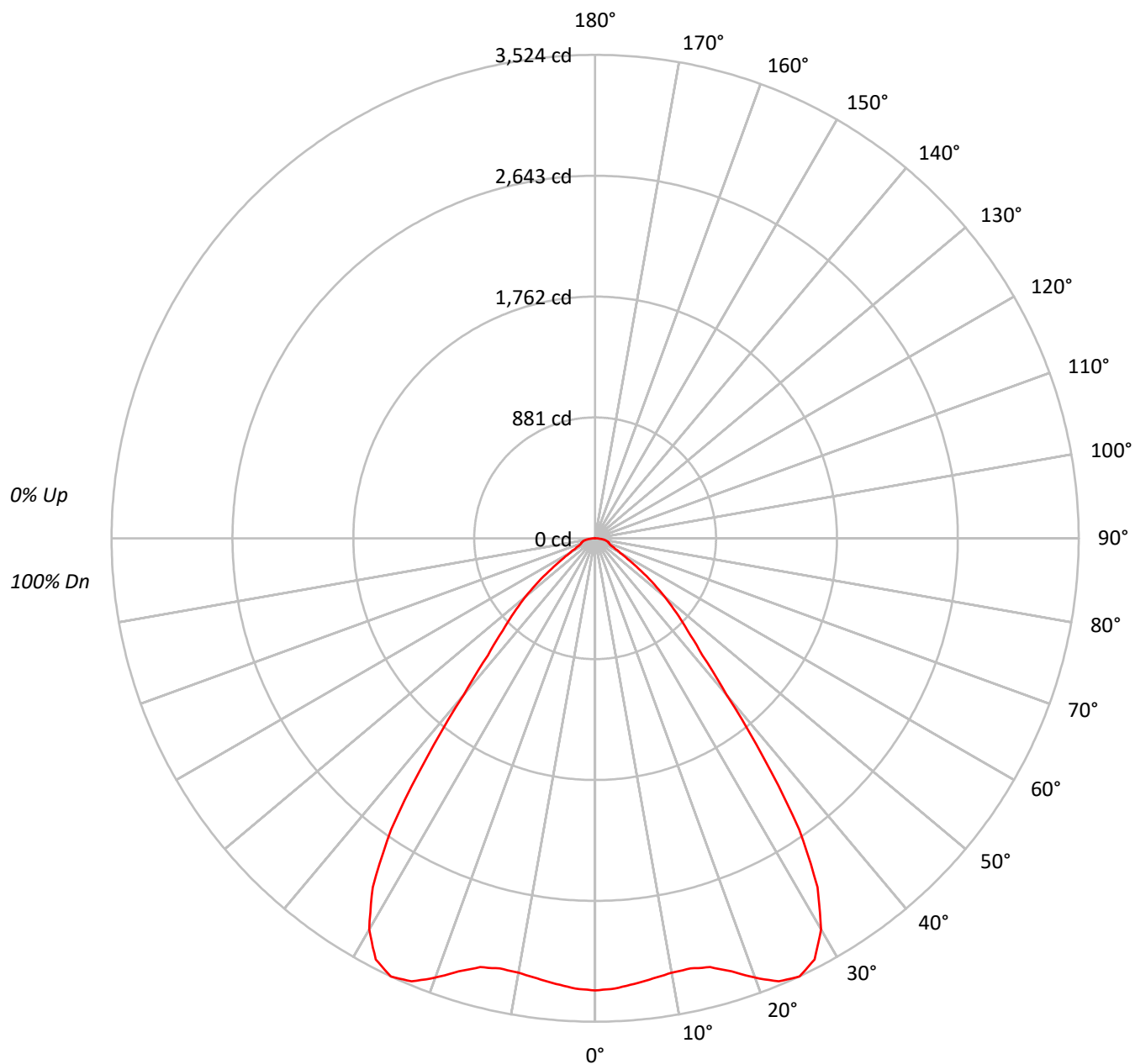
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P584775

CATALOG NUMBER: HCC8S45D010SL-HM82555940-81WDWB

Luminous Intensity Polar Plot





TEST NUMBER: P584775

CATALOG NUMBER: HCC8S45D010SL-HM82555940-81WDWB

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						
1	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90						
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81						
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73						
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65						
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59						
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54						
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49						
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45						
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41						
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	101640
5°	100938
10°	100678
15°	103319
20°	111854
25°	119918
30°	117239
35°	97626
40°	59974
45°	41525
50°	31691
55°	20779
60°	13001
65°	9741
70°	9827
75°	11307
80°	12484
85°	11216



TEST NUMBER: P584775

CATALOG NUMBER: HCC8S45D010SL-HM82555940-81WDWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.8	5.4
10°-20°	929.1	16.1
20°-30°	1599.4	27.6
30°-40°	1549.6	26.8
40°-50°	763.2	13.2
50°-60°	360.2	6.2
60°-70°	141.9	2.5
70°-80°	97.9	1.7
80°-90°	36.4	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°	2838.3	49.0
0°-40°	4387.9	75.8
0°-60°	5511.2	95.2
0°-90°	5787.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5787.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3296	
5°	3261	310
15°	3236	929
25°	3524	1599
35°	2593	1550
45°	952	763
55°	386	360
65°	134	142
75°	95	98
85°	32	36
90°	0	



TEST NUMBER: P584775

CATALOG NUMBER: HCC8S45D010SL-HM82555940-81WDWB

CANDELA DISTRIBUTION (FULL):

0°	
0°	3296.1
2.5°	3285.6
5°	3260.9
7.5°	3236.4
10°	3215.3
12.5°	3211.8
15°	3236.4
17.5°	3310.2
20°	3408.6
22.5°	3496.5
25°	3524.5
27.5°	3461.3
30°	3292.6
32.5°	3015.0
35°	2593.4
37.5°	2013.6
40°	1489.9
42.5°	1156.1
45°	952.2
47.5°	801.2
50°	660.6
52.5°	520.1
55°	386.5
57.5°	281.2
60°	210.8
62.5°	165.2
65°	133.5
67.5°	116.0
70°	109.0
72.5°	101.9
75°	94.9
77.5°	84.3
80°	70.3
82.5°	52.7
85°	31.7
87.5°	14.1
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)