

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: P584679

Luminaire Tested: **HCC8S45D010MB-HM82555835-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584679
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8S45D010MB-HM82555835-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5048.6 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

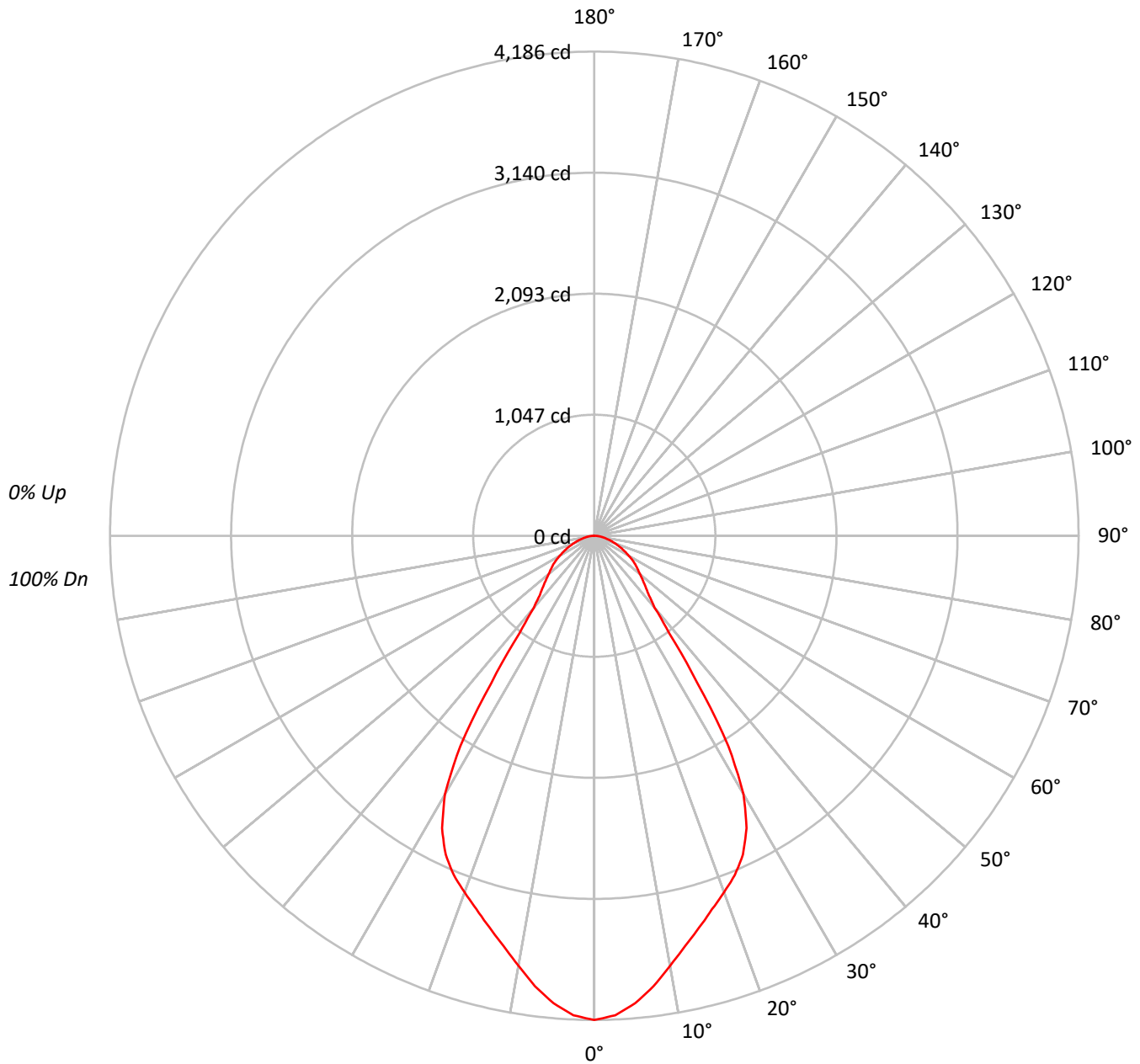
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	102		109	106	103	100		102	99	97		98	96	94		94	93	92
2	104	98	93	89		102	96	92	88		93	89	86		90	87	84		87	84	82
3	98	89	83	78		95	88	82	78		85	80	76		83	78	75		80	77	74
4	91	82	75	70		89	81	74	69		78	73	69		76	72	68		74	70	67
5	86	76	68	63		84	75	68	63		73	67	62		71	66	62		69	65	61
6	81	70	63	58		79	69	62	57		67	61	57		66	61	56		64	60	56
7	76	65	58	53		74	64	57	53		63	57	52		62	56	52		60	55	52
8	72	61	54	49		70	60	53	49		59	53	48		58	52	48		57	52	48
9	68	57	50	45		67	56	50	45		55	49	45		54	49	45		53	48	45
10	64	53	46	42		63	53	46	42		52	46	42		51	46	42		50	45	42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	129090
5°	125575
10°	118168
15°	111881
20°	107621
25°	103464
30°	91890
35°	58522
40°	32662
45°	27356
50°	24696
55°	23279
60°	21234
65°	19153
70°	16896
75°	15024
80°	13318
85°	12065



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.2	7.5
10°-20°	988.4	19.6
20°-30°	1378.8	27.3
30°-40°	992.2	19.7
40°-50°	491.7	9.7
50°-60°	384.7	7.6
60°-70°	260.4	5.2
70°-80°	135.2	2.7
80°-90°	38.9	0.8
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°	2745.4	54.4
0°-40°	3737.6	74.0
0°-60°	4614.0	91.4
0°-90°	5048.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5048.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4186	
5°	4057	378
15°	3505	988
25°	3041	1379
35°	1555	992
45°	627	492
55°	433	385
65°	262	260
75°	126	135
85°	34	39
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4186.3
2.5°	4148.9
5°	4056.8
7.5°	3927.3
10°	3773.9
12.5°	3630.7
15°	3504.6
17.5°	3385.3
20°	3279.6
22.5°	3173.9
25°	3040.9
27.5°	2850.0
30°	2580.7
32.5°	2158.0
35°	1554.6
37.5°	1060.3
40°	811.4
42.5°	698.9
45°	627.3
47.5°	565.9
50°	514.8
52.5°	470.5
55°	433.0
57.5°	388.6
60°	344.3
62.5°	300.1
65°	262.5
67.5°	225.0
70°	187.4
72.5°	156.8
75°	126.1
77.5°	98.9
80°	75.0
82.5°	54.5
85°	34.1
87.5°	17.0
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

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1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



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— 0°-180°

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(END OF REPORT)