

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: P584683

Luminaire Tested: **HCC8W45D010MB-HM82555835-81PSMDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584683
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W45D010MB-HM82555835-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5069.0 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

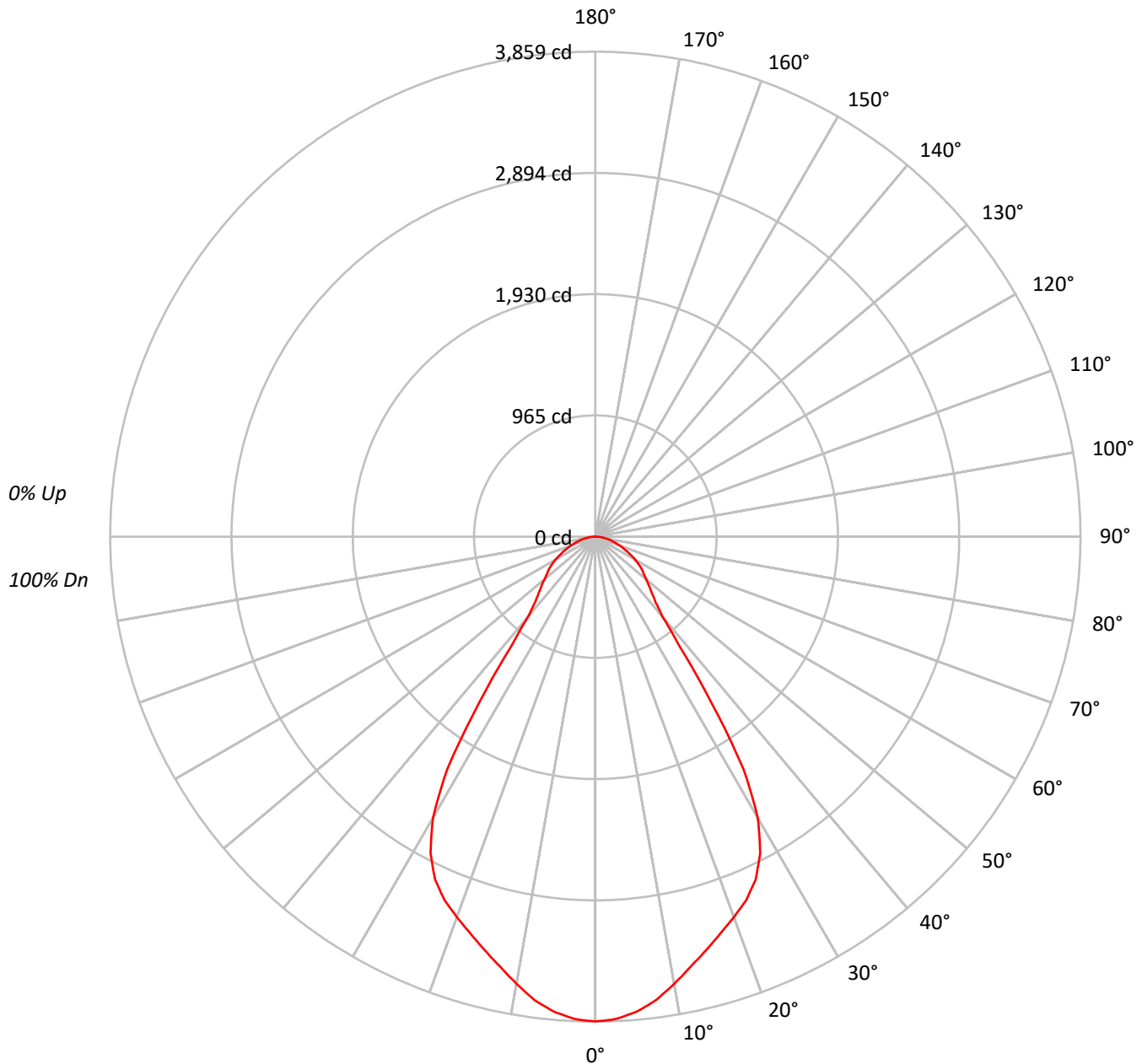
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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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	111	108	105	102		109	106	103	100		101	99	97		98	96	94		94	93	91
2	104	98	92	88		102	96	91	87		92	88	85		89	86	83		86	84	81
3	97	89	83	77		95	87	82	77		85	80	76		82	78	74		80	76	73
4	91	81	74	69		89	80	74	69		78	72	68		76	71	67		74	70	66
5	85	75	68	62		83	74	67	62		72	66	61		70	65	61		68	64	60
6	80	69	62	57		78	68	61	56		67	61	56		65	60	56		64	59	55
7	75	64	57	52		74	63	57	52		62	56	51		61	55	51		60	55	51
8	71	60	53	48		70	59	52	48		58	52	47		57	51	47		56	51	47
9	67	56	49	44		66	55	49	44		54	48	44		53	48	44		52	47	44
10	64	52	46	41		62	52	45	41		51	45	41		50	45	41		49	44	41

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	118985
5°	117434
10°	113137
15°	108708
20°	105705
25°	102525
30°	92001
35°	60310
40°	33342
45°	27796
50°	25344
55°	24193
60°	22492
65°	20394
70°	18447
75°	16644
80°	15130
85°	14471



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.5	7.0
10°-20°	960.7	19.0
20°-30°	1367.3	27.0
30°-40°	1012.0	20.0
40°-50°	501.2	9.9
50°-60°	400.0	7.9
60°-70°	277.7	5.5
70°-80°	149.6	3.0
80°-90°	44.0	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°	2684.5	53.0
0°-40°	3696.4	72.9
0°-60°	4597.6	90.7
0°-90°	5069.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5069.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3859	
5°	3794	356
15°	3405	961
25°	3013	1367
35°	1602	1012
45°	637	501
55°	450	400
65°	280	278
75°	140	150
85°	41	44
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3858.6
2.5°	3841.6
5°	3793.8
7.5°	3718.9
10°	3613.2
12.5°	3504.1
15°	3405.2
17.5°	3309.9
20°	3221.2
22.5°	3132.6
25°	3013.3
27.5°	2839.5
30°	2583.8
32.5°	2191.8
35°	1602.1
37.5°	1094.2
40°	828.3
42.5°	709.0
45°	637.4
47.5°	579.5
50°	528.3
52.5°	484.0
55°	450.0
57.5°	409.0
60°	364.7
62.5°	320.5
65°	279.5
67.5°	238.6
70°	204.6
72.5°	170.4
75°	139.7
77.5°	112.5
80°	85.2
82.5°	61.3
85°	40.9
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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Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report



— 0°-180°

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Scaled Data Report



(END OF REPORT)