

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: P593764

Luminaire Tested: **HC845D010-HM82555850-81PSMDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593764
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: HC845D010-HM82555850-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5490.0 lumens
Efficiency: N/A
Efficacy: 124.8 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

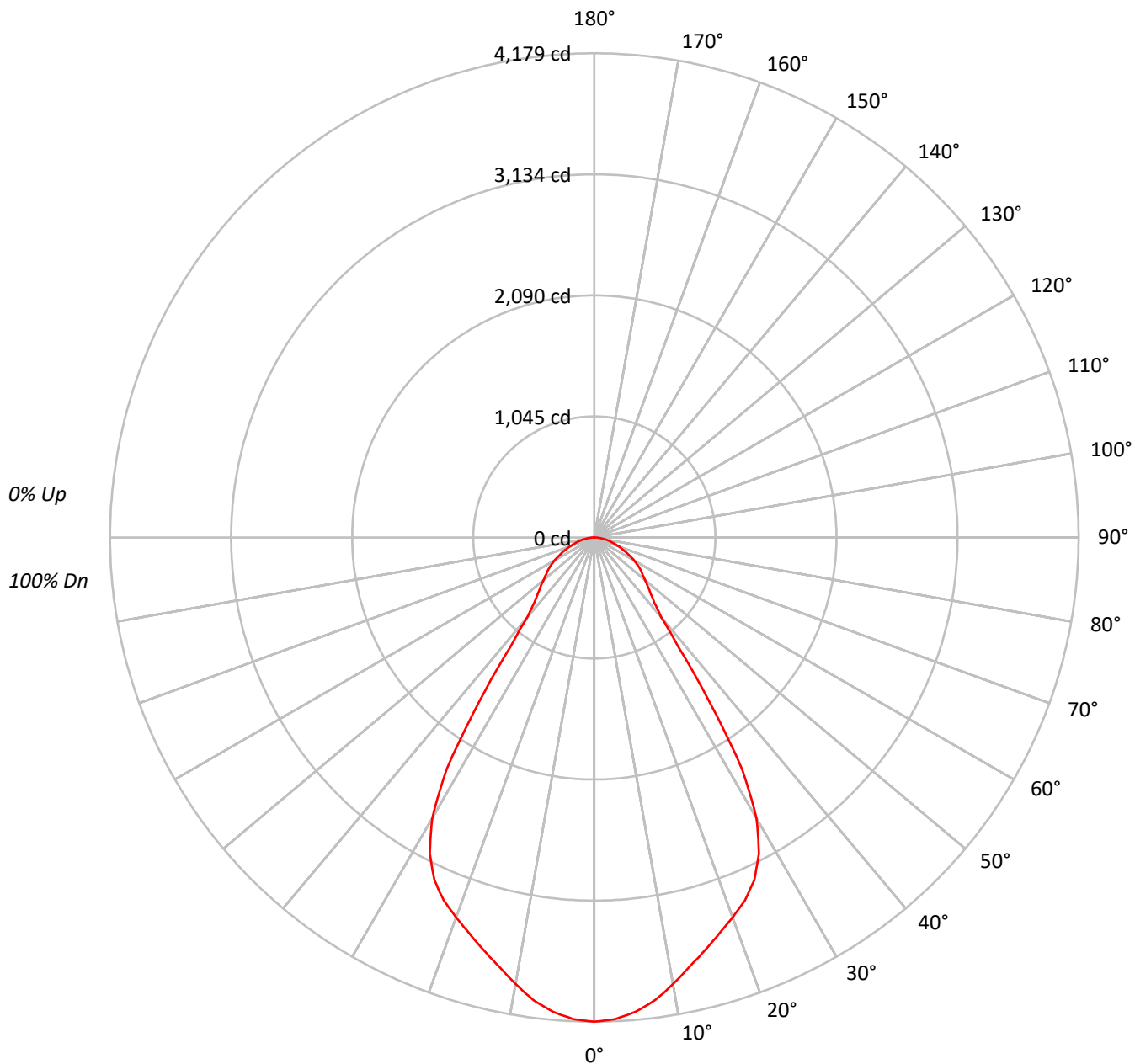
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	128871
5°	127190
10°	122530
15°	117739
20°	114483
25°	111038
30°	99642
35°	65316
40°	36112
45°	30103
50°	27450
55°	26198
60°	24367
65°	22094
70°	19970
75°	18026
80°	16391
85°	15674



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.1	7.0
10°-20°	1040.5	19.0
20°-30°	1480.8	27.0
30°-40°	1096.0	20.0
40°-50°	542.8	9.9
50°-60°	433.2	7.9
60°-70°	300.8	5.5
70°-80°	162.1	3.0
80°-90°	47.7	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°	2907.4	53.0
0°-40°	4003.4	72.9
0°-60°	4979.4	90.7
0°-90°	5490.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5490.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4179	
5°	4109	386
15°	3688	1041
25°	3264	1481
35°	1735	1096
45°	690	543
55°	487	433
65°	303	301
75°	151	162
85°	44	48
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4179.2
2.5°	4160.6
5°	4109.0
7.5°	4027.7
10°	3913.2
12.5°	3795.1
15°	3688.1
17.5°	3584.7
20°	3488.7
22.5°	3392.8
25°	3263.5
27.5°	3075.3
30°	2798.4
32.5°	2373.8
35°	1735.1
37.5°	1185.1
40°	897.1
42.5°	767.8
45°	690.3
47.5°	627.6
50°	572.2
52.5°	524.2
55°	487.3
57.5°	443.0
60°	395.1
62.5°	347.0
65°	302.8
67.5°	258.4
70°	221.5
72.5°	184.6
75°	151.3
77.5°	121.9
80°	92.3
82.5°	66.5
85°	44.3
87.5°	18.4
90°	0.0



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— 0°-180°







(END OF REPORT)