

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: P584741

Luminaire Tested: **HC845D010-HM82555930-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584741
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: HC845D010-HM82555930-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5207.8 lumens
Efficiency: N/A
Efficacy: 118.4 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

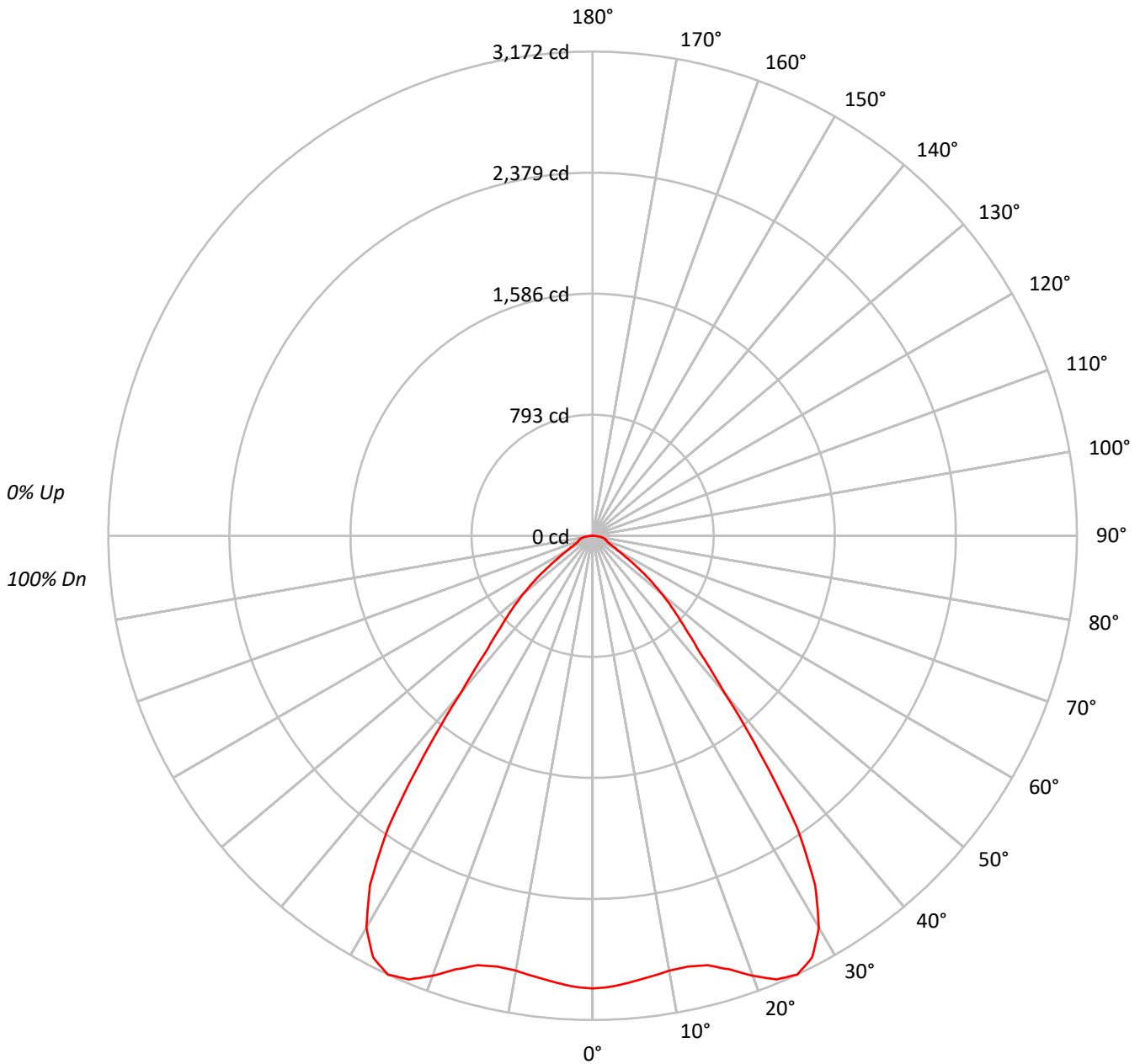
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	91461
5°	90832
10°	90595
15°	92969
20°	100651
25°	107911
30°	105499
35°	87846
40°	53968
45°	37369
50°	28520
55°	18698
60°	11699
65°	8763
70°	8845
75°	10175
80°	11223
85°	10084



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.8	5.4
10°-20°	836.0	16.1
20°-30°	1439.2	27.6
30°-40°	1394.3	26.8
40°-50°	686.8	13.2
50°-60°	324.1	6.2
60°-70°	127.7	2.5
70°-80°	88.1	1.7
80°-90°	32.7	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°	2554.0	49.0
0°-40°	3948.3	75.8
0°-60°	4959.2	95.2
0°-90°	5207.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5207.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2966	
5°	2934	279
15°	2912	836
25°	3172	1439
35°	2334	1394
45°	857	687
55°	348	324
65°	120	128
75°	85	88
85°	28	33
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2966.0
2.5°	2956.5
5°	2934.4
7.5°	2912.2
10°	2893.3
12.5°	2890.2
15°	2912.2
17.5°	2978.6
20°	3067.2
22.5°	3146.2
25°	3171.6
27.5°	3114.5
30°	2962.9
32.5°	2713.0
35°	2333.6
37.5°	1811.8
40°	1340.7
42.5°	1040.3
45°	856.9
47.5°	720.9
50°	594.5
52.5°	468.0
55°	347.8
57.5°	253.0
60°	189.7
62.5°	148.6
65°	120.1
67.5°	104.4
70°	98.1
72.5°	91.7
75°	85.4
77.5°	75.9
80°	63.2
82.5°	47.4
85°	28.5
87.5°	12.7
90°	0.0



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— 0°-180°







(END OF REPORT)