

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: P584604

Luminaire Tested: **HC840D010-HM82555930-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584604
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC840D010-HM82555930-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4562.4 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

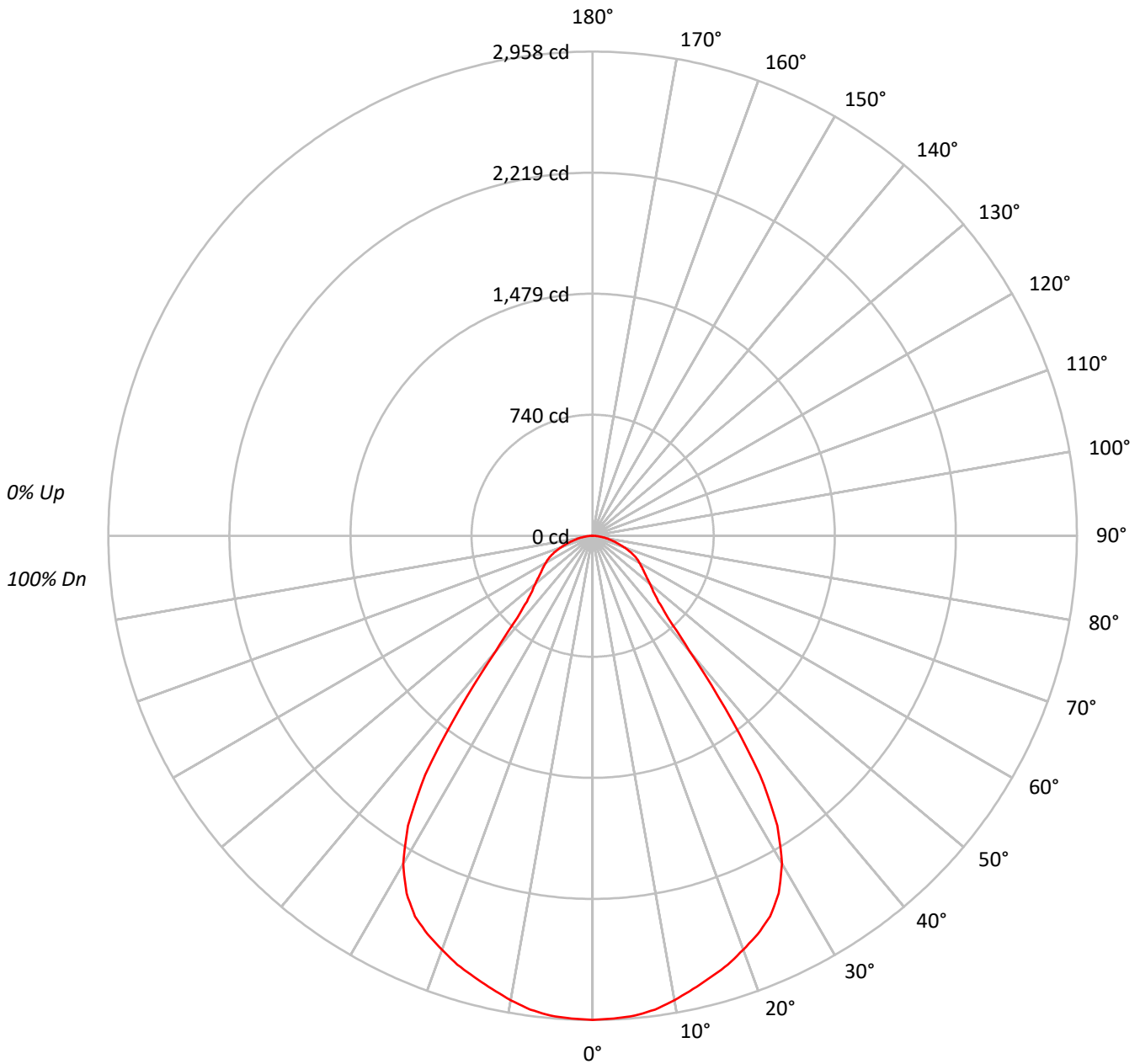
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	91214
5°	91101
10°	90204
15°	89119
20°	88296
25°	87306
30°	82376
35°	67078
40°	37062
45°	24739
50°	21938
55°	20596
60°	20327
65°	20153
70°	18203
75°	16275
80°	14242
85°	12596



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.9	6.1
10°-20°	788.2	17.3
20°-30°	1171.3	25.7
30°-40°	1054.8	23.1
40°-50°	467.6	10.2
50°-60°	346.3	7.6
60°-70°	269.3	5.9
70°-80°	146.0	3.2
80°-90°	40.0	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°	2238.4	49.1
0°-40°	3293.2	72.2
0°-60°	4107.1	90.0
0°-90°	4562.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4562.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2958	
5°	2943	279
15°	2792	788
25°	2566	1171
35°	1782	1055
45°	567	468
55°	383	346
65°	276	269
75°	137	146
85°	36	40
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2958.0
2.5°	2952.0
5°	2943.1
7.5°	2919.4
10°	2880.8
12.5°	2836.2
15°	2791.6
17.5°	2747.1
20°	2690.7
22.5°	2634.3
25°	2566.0
27.5°	2462.0
30°	2313.5
32.5°	2099.6
35°	1781.9
37.5°	1330.5
40°	920.7
42.5°	680.1
45°	567.3
47.5°	501.9
50°	457.3
52.5°	415.8
55°	383.1
57.5°	356.4
60°	329.6
62.5°	305.9
65°	276.2
67.5°	240.5
70°	201.9
72.5°	169.3
75°	136.6
77.5°	106.9
80°	80.2
82.5°	56.4
85°	35.6
87.5°	14.9
90°	0.0



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— 0°-180°







(END OF REPORT)