

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: P584621

Luminaire Tested: **HC840D010-HM82555935-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584621
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-HM82555935-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4586.9 lumens
Efficiency: N/A
Efficacy: 111.9 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

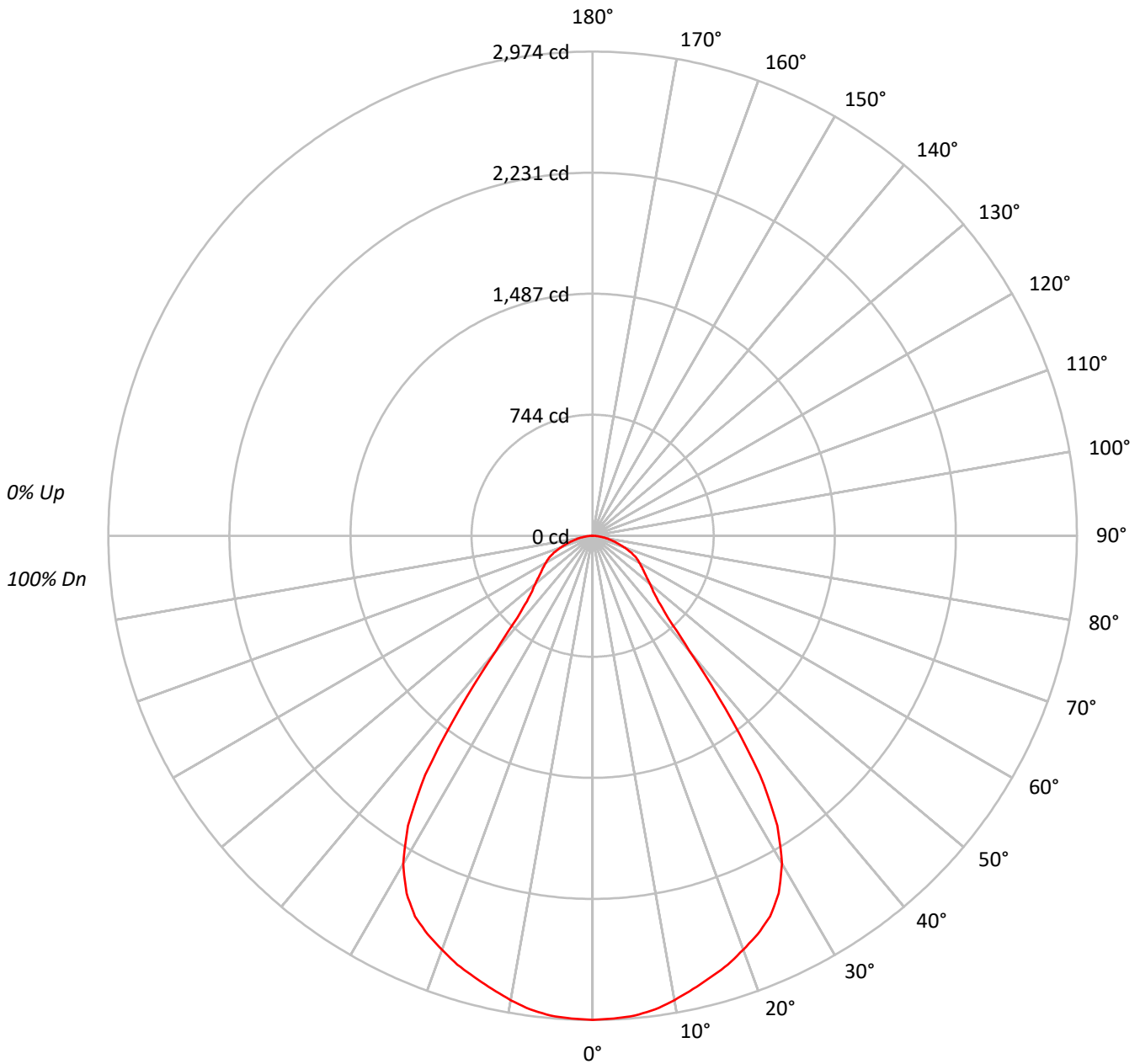
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	91704
5°	91590
10°	90686
15°	89601
20°	88772
25°	87775
30°	82821
35°	67440
40°	37259
45°	24866
50°	22058
55°	20709
60°	20438
65°	20255
70°	18302
75°	16358
80°	14313
85°	12666



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.4	6.1
10°-20°	792.5	17.3
20°-30°	1177.6	25.7
30°-40°	1060.5	23.1
40°-50°	470.1	10.2
50°-60°	348.2	7.6
60°-70°	270.7	5.9
70°-80°	146.8	3.2
80°-90°	40.2	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°	2250.5	49.1
0°-40°	3311.0	72.2
0°-60°	4129.2	90.0
0°-90°	4586.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4586.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2974	
5°	2959	280
15°	2807	792
25°	2580	1178
35°	1792	1060
45°	570	470
55°	385	348
65°	278	271
75°	137	147
85°	36	40
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2973.9
2.5°	2968.0
5°	2958.9
7.5°	2935.1
10°	2896.2
12.5°	2851.5
15°	2806.7
17.5°	2761.9
20°	2705.2
22.5°	2648.5
25°	2579.8
27.5°	2475.3
30°	2326.0
32.5°	2110.9
35°	1791.5
37.5°	1337.7
40°	925.6
42.5°	683.8
45°	570.2
47.5°	504.6
50°	459.8
52.5°	418.0
55°	385.2
57.5°	358.3
60°	331.4
62.5°	307.5
65°	277.6
67.5°	241.8
70°	203.0
72.5°	170.2
75°	137.3
77.5°	107.5
80°	80.6
82.5°	56.8
85°	35.8
87.5°	14.9
90°	0.0



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— 0°-180°







(END OF REPORT)