

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: P584519

Luminaire Tested: **HC840D010-HM82555827-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584519
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-HM82555827-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4751.9 lumens
Efficiency: N/A
Efficacy: 115.9 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

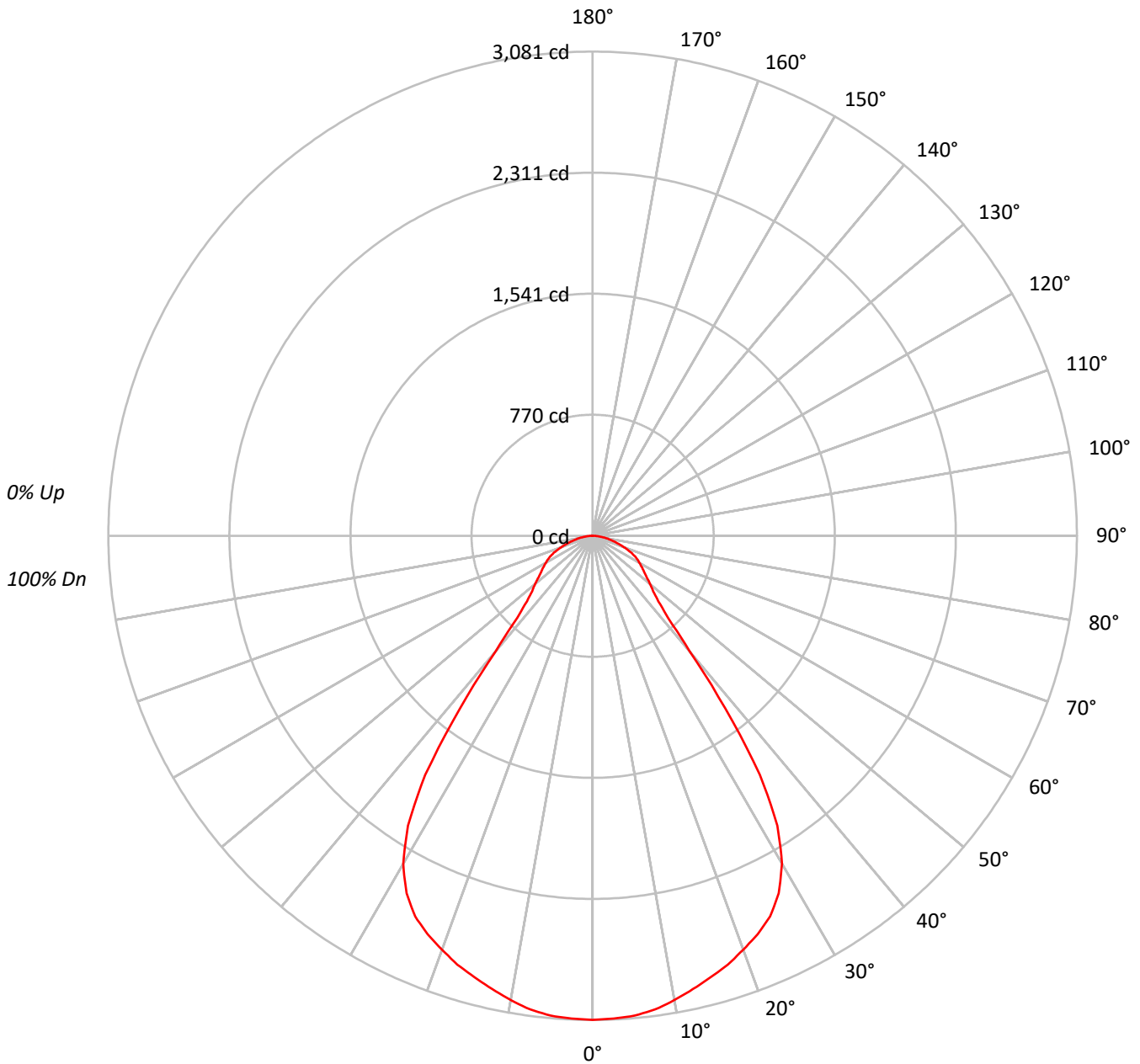
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	95001
5°	94884
10°	93945
15°	92819
20°	91962
25°	90929
30°	85794
35°	69864
40°	38600
45°	25764
50°	22854
55°	21451
60°	21172
65°	20985
70°	18970
75°	16954
80°	14828
85°	13126



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.5	6.1
10°-20°	821.0	17.3
20°-30°	1219.9	25.7
30°-40°	1098.6	23.1
40°-50°	487.0	10.2
50°-60°	360.7	7.6
60°-70°	280.5	5.9
70°-80°	152.1	3.2
80°-90°	41.7	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°	2331.4	49.1
0°-40°	3430.0	72.2
0°-60°	4277.7	90.0
0°-90°	4751.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4751.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3081	
5°	3065	291
15°	2908	821
25°	2672	1220
35°	1856	1099
45°	591	487
55°	399	361
65°	288	280
75°	142	152
85°	37	42
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3080.8
2.5°	3074.6
5°	3065.3
7.5°	3040.6
10°	3000.3
12.5°	2953.9
15°	2907.5
17.5°	2861.1
20°	2802.4
22.5°	2743.7
25°	2672.5
27.5°	2564.2
30°	2409.5
32.5°	2186.9
35°	1855.9
37.5°	1385.8
40°	958.9
42.5°	708.3
45°	590.8
47.5°	522.8
50°	476.4
52.5°	433.0
55°	399.0
57.5°	371.2
60°	343.3
62.5°	318.6
65°	287.6
67.5°	250.5
70°	210.4
72.5°	176.4
75°	142.3
77.5°	111.4
80°	83.5
82.5°	58.8
85°	37.1
87.5°	15.5
90°	0.0



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— 0°-180°







(END OF REPORT)