

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: P593891

Luminaire Tested: **HC880D010-HM86080850-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593891
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: HC880D010-HM86080850-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8576.9 lumens
Efficiency: N/A
Efficacy: 122.5 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

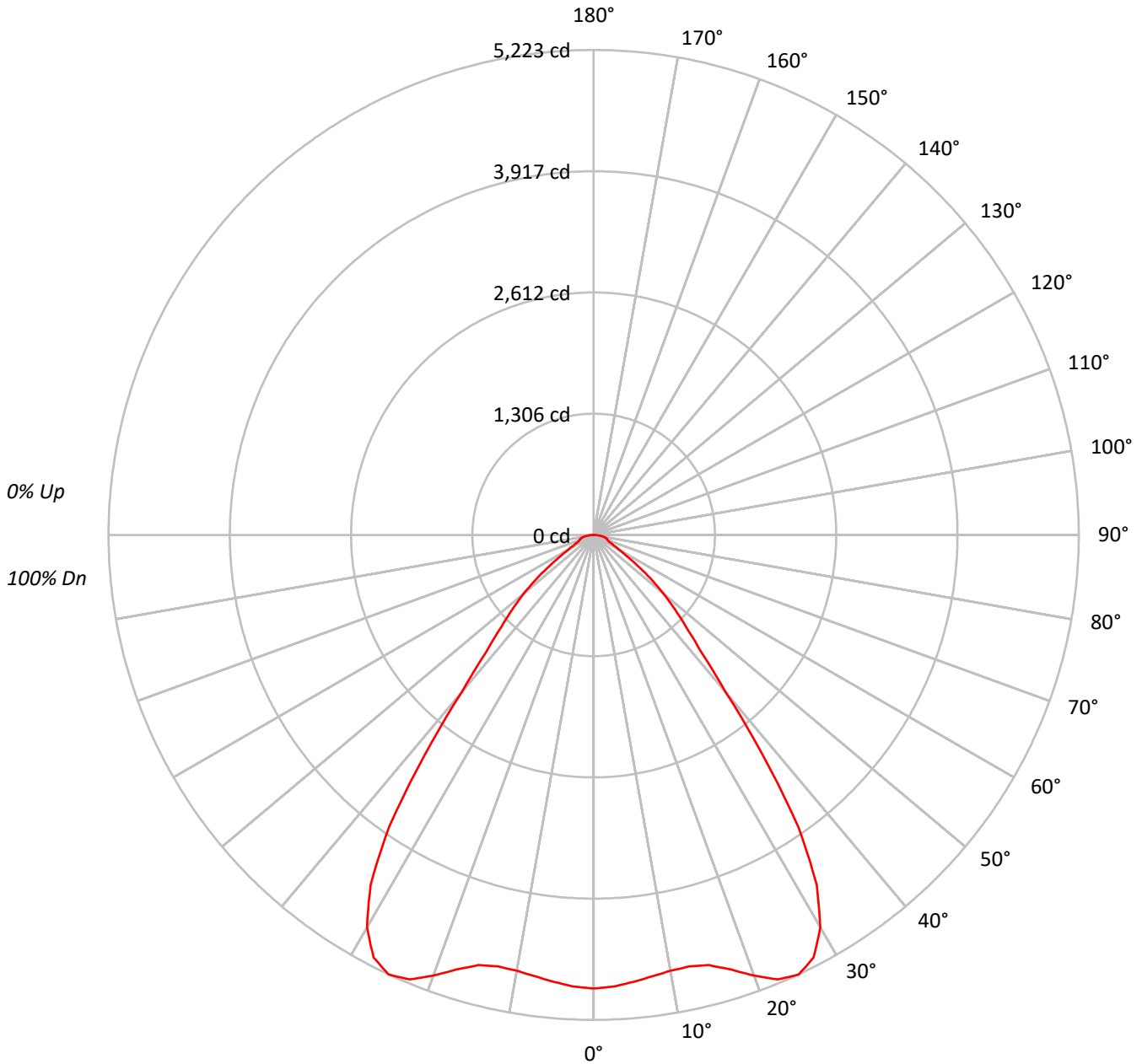
Input Watts (W): 70
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	150632
5°	149595
10°	149208
15°	153118
20°	165770
25°	177722
30°	173750
35°	144678
40°	88885
45°	61546
50°	46965
55°	30800
60°	19273
65°	14432
70°	14561
75°	16763
80°	18504
85°	16558



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.2	5.4
10°-20°	1376.9	16.1
20°-30°	2370.3	27.6
30°-40°	2296.4	26.8
40°-50°	1131.1	13.2
50°-60°	533.8	6.2
60°-70°	210.3	2.5
70°-80°	145.1	1.7
80°-90°	53.8	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°	4206.4	49.0
0°-40°	6502.8	75.8
0°-60°	8167.7	95.2
0°-90°	8576.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8576.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4885	
5°	4833	459
15°	4796	1377
25°	5223	2370
35°	3843	2296
45°	1411	1131
55°	573	534
65°	198	210
75°	141	145
85°	47	54
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4884.9
2.5°	4869.3
5°	4832.8
7.5°	4796.3
10°	4765.2
12.5°	4759.9
15°	4796.3
17.5°	4905.7
20°	5051.6
22.5°	5181.8
25°	5223.4
27.5°	5129.7
30°	4879.7
32.5°	4468.3
35°	3843.3
37.5°	2984.0
40°	2208.1
42.5°	1713.3
45°	1411.3
47.5°	1187.3
50°	979.0
52.5°	770.7
55°	572.9
57.5°	416.6
60°	312.5
62.5°	244.8
65°	197.8
67.5°	171.8
70°	161.5
72.5°	151.0
75°	140.7
77.5°	125.0
80°	104.2
82.5°	78.1
85°	46.8
87.5°	20.8
90°	0.0



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— 0°-180°







(END OF REPORT)