

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: P585250

Luminaire Tested: **HC880D010-HM86080840-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585250
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: HC880D010-HM86080840-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7998.9 lumens
Efficiency: N/A
Efficacy: 114.3 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

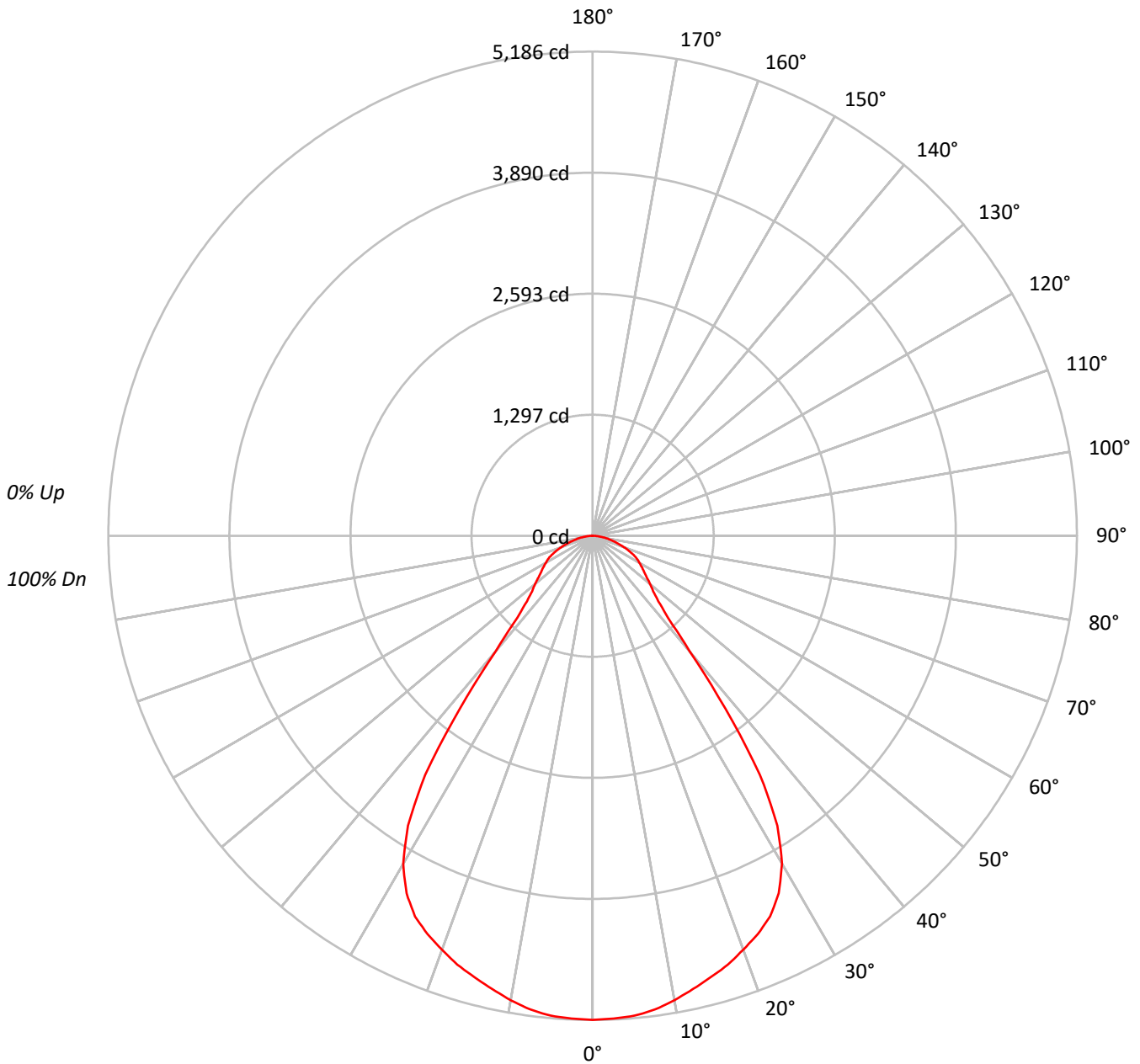
Input Watts (W): 70
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	159914
5°	159720
10°	158144
15°	156249
20°	154803
25°	153064
30°	144421
35°	117604
40°	64974
45°	43369
50°	38469
55°	36112
60°	35647
65°	35337
70°	31925
75°	28535
80°	24950
85°	22078



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	489.0	6.1
10°-20°	1382.0	17.3
20°-30°	2053.5	25.7
30°-40°	1849.2	23.1
40°-50°	819.8	10.2
50°-60°	607.2	7.6
60°-70°	472.2	5.9
70°-80°	256.0	3.2
80°-90°	70.1	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°	3924.5	49.1
0°-40°	5773.7	72.2
0°-60°	7200.7	90.0
0°-90°	7998.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7998.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5186	
5°	5160	489
15°	4894	1382
25°	4499	2053
35°	3124	1849
45°	994	820
55°	672	607
65°	484	472
75°	240	256
85°	62	70
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5185.9
2.5°	5175.6
5°	5159.9
7.5°	5118.3
10°	5050.6
12.5°	4972.5
15°	4894.4
17.5°	4816.3
20°	4717.4
22.5°	4618.4
25°	4498.7
27.5°	4316.4
30°	4056.0
32.5°	3681.1
35°	3124.1
37.5°	2332.6
40°	1614.1
42.5°	1192.3
45°	994.5
47.5°	880.0
50°	801.9
52.5°	729.0
55°	671.7
57.5°	624.8
60°	578.0
62.5°	536.4
65°	484.3
67.5°	421.7
70°	354.1
72.5°	296.8
75°	239.5
77.5°	187.4
80°	140.5
82.5°	98.9
85°	62.4
87.5°	26.0
90°	0.0



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— 0°-180°







(END OF REPORT)