

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: P585217

Luminaire Tested: **HC880D010-HM86080830-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585217
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-HM86080830-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6809.5 lumens
Efficiency: N/A
Efficacy: 97.3 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

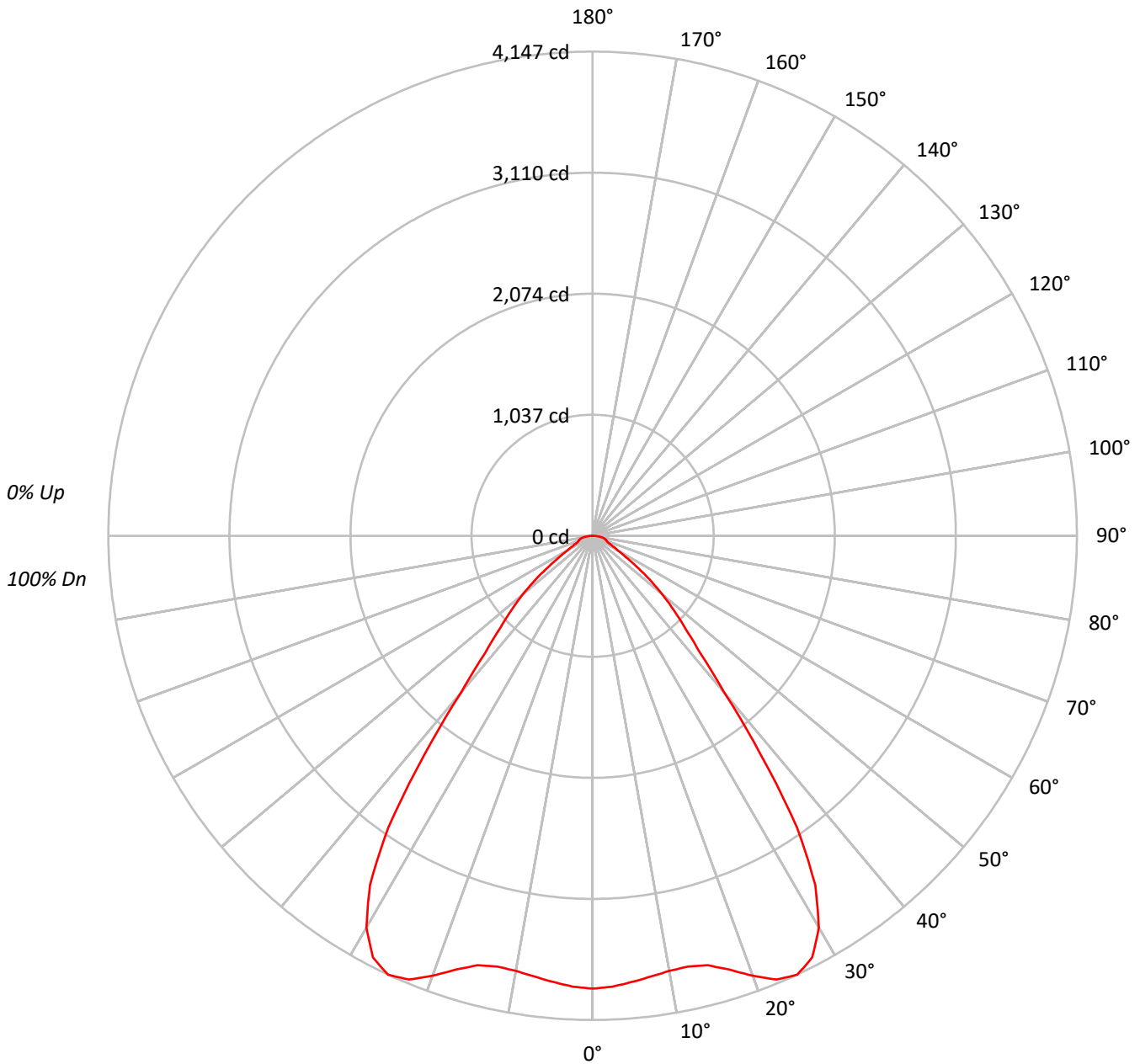
Input Watts (W): 70
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59			
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49			
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45			
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41			
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	119592
5°	118768
10°	118460
15°	121567
20°	131609
25°	141098
30°	137944
35°	114864
40°	70569
45°	48864
50°	37294
55°	24451
60°	15295
65°	11463
70°	11558
75°	13296
80°	14668
85°	13162



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.6	5.4
10°-20°	1093.1	16.1
20°-30°	1881.8	27.6
30°-40°	1823.2	26.8
40°-50°	898.0	13.2
50°-60°	423.8	6.2
60°-70°	167.0	2.5
70°-80°	115.2	1.7
80°-90°	42.7	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°	3339.6	49.0
0°-40°	5162.8	75.8
0°-60°	6484.6	95.2
0°-90°	6809.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6809.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3878	
5°	3837	365
15°	3808	1093
25°	4147	1882
35°	3051	1823
45°	1120	898
55°	455	424
65°	157	167
75°	112	115
85°	37	43
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3878.3
2.5°	3865.9
5°	3836.9
7.5°	3808.0
10°	3783.2
12.5°	3779.0
15°	3808.0
17.5°	3894.8
20°	4010.6
22.5°	4113.9
25°	4147.0
27.5°	4072.6
30°	3874.1
32.5°	3547.5
35°	3051.3
37.5°	2369.1
40°	1753.1
42.5°	1360.3
45°	1120.5
47.5°	942.6
50°	777.4
52.5°	612.0
55°	454.8
57.5°	330.8
60°	248.0
62.5°	194.3
65°	157.1
67.5°	136.5
70°	128.2
72.5°	119.9
75°	111.6
77.5°	99.3
80°	82.6
82.5°	62.1
85°	37.2
87.5°	16.5
90°	0.0



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— 0°-180°







(END OF REPORT)