

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: P593911

Luminaire Tested: **HC880D010-HM86080950-81WDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593911
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC880D010-HM86080950-81WDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7241.0 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

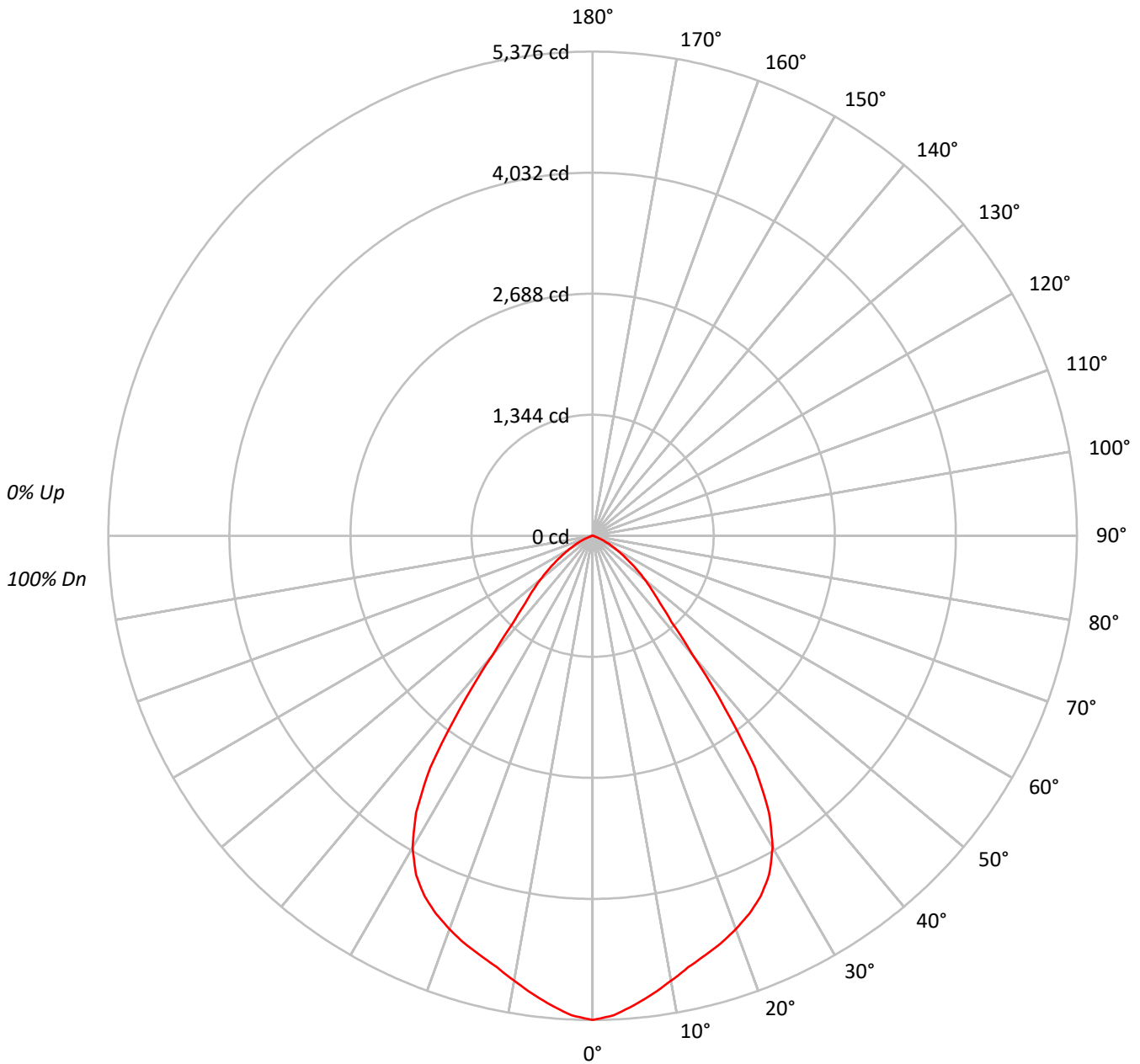
Input Watts (W): 70
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68			
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62			
6	82	72	65	60	80	71	64	60	69	64	59	68	63	59	66	62	58	57			
7	77	67	60	55	76	66	59	55	64	59	54	63	58	54	62	57	54	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44			
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	165773
5°	162039
10°	157074
15°	153893
20°	152512
25°	150233
30°	142309
35°	118237
40°	69631
45°	46056
50°	36248
55°	26676
60°	18533
65°	11295
70°	4923
75°	2168
80°	1634
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.0	6.8
10°-20°	1362.8	18.8
20°-30°	2019.2	27.9
30°-40°	1865.8	25.8
40°-50°	860.3	11.9
50°-60°	452.5	6.2
60°-70°	159.9	2.2
70°-80°	25.1	0.3
80°-90°	2.5	0.0
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°	3875.0	53.5
0°-40°	5740.8	79.3
0°-60°	7053.5	97.4
0°-90°	7241.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7241.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5376	
5°	5235	493
15°	4821	1363
25°	4416	2019
35°	3141	1866
45°	1056	860
55°	496	452
65°	155	160
75°	18	25
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5375.9
2.5°	5330.4
5°	5234.8
7.5°	5130.2
10°	5016.4
12.5°	4907.1
15°	4820.6
17.5°	4743.2
20°	4647.6
22.5°	4542.9
25°	4415.5
27.5°	4242.5
30°	3996.7
32.5°	3646.2
35°	3140.9
37.5°	2412.6
40°	1729.8
42.5°	1297.3
45°	1056.1
47.5°	896.7
50°	755.6
52.5°	619.1
55°	496.2
57.5°	391.4
60°	300.5
62.5°	227.6
65°	154.8
67.5°	91.1
70°	54.6
72.5°	31.9
75°	18.2
77.5°	13.7
80°	9.2
82.5°	4.5
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)