

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: P593914

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593914
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC880D010-HM86080950-81WDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7646.1 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

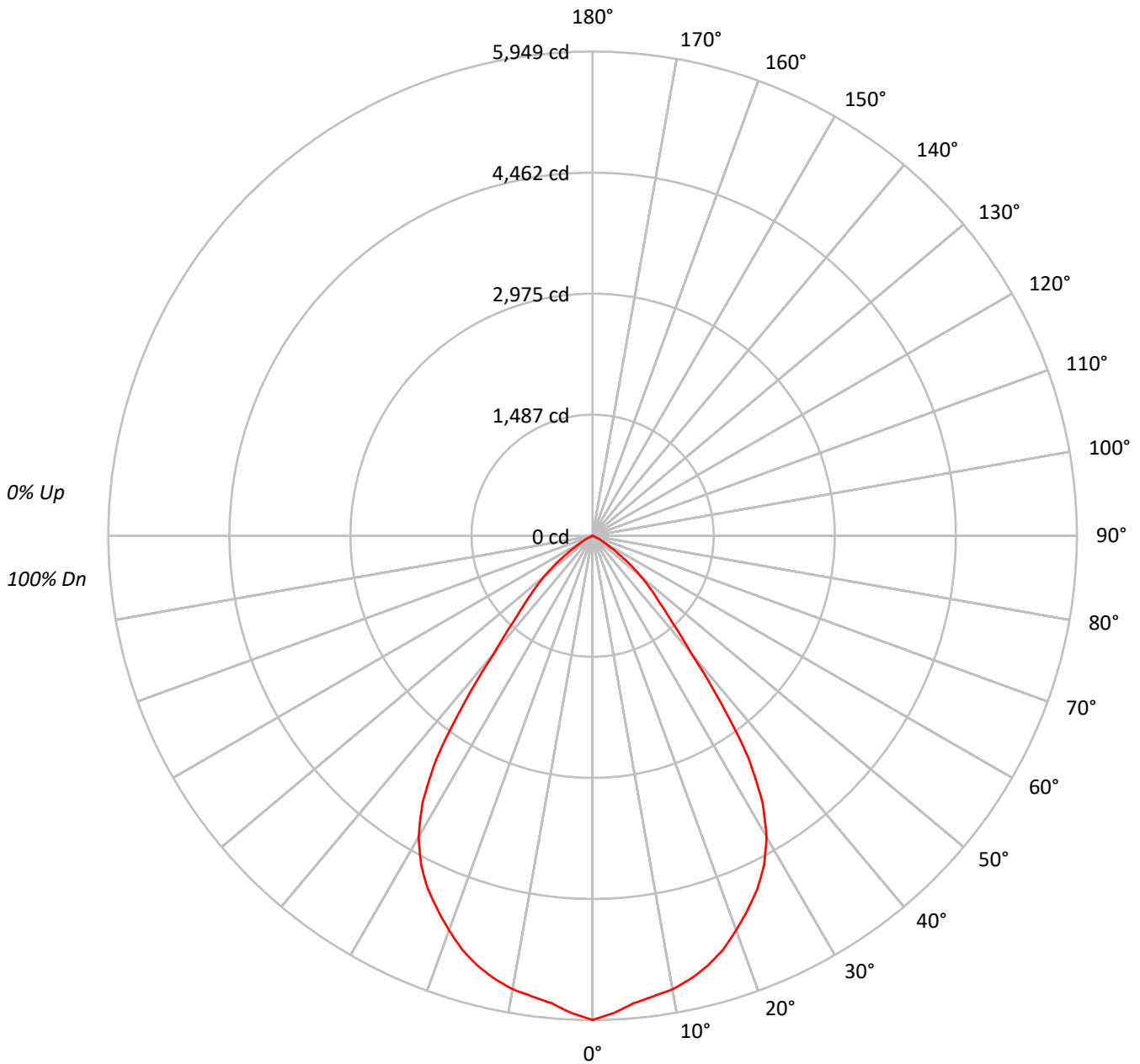
Input Watts (W): 70
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92			92
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84			84
3	100	93	87	83	98	91	86	82	89	84	81	86	83	79	84	81	78	77			77
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	71	70			70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64			64
6	83	73	66	62	82	72	66	61	71	65	61	69	64	61	68	64	60	59			59
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	63	59	55	54			54
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50			50
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46			46
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43			43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	183442
5°	178509
10°	177151
15°	174513
20°	169229
25°	162918
30°	152183
35°	125939
40°	76040
45°	51215
50°	36905
55°	21042
60°	9263
65°	3320
70°	1235
75°	536
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	547.9	7.2
10°-20°	1536.3	20.1
20°-30°	2191.5	28.7
30°-40°	1995.6	26.1
40°-50°	941.4	12.3
50°-60°	370.2	4.8
60°-70°	59.0	0.8
70°-80°	4.1	0.1
80°-90°	0.0	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°	4275.7	55.9
0°-40°	6271.3	82.0
0°-60°	7583.0	99.2
0°-90°	7646.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7646.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5949	
5°	5767	548
15°	5466	1536
25°	4788	2192
35°	3346	1996
45°	1174	941
55°	391	370
65°	46	59
75°	4	4
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5948.9
2.5°	5871.6
5°	5766.9
7.5°	5707.8
10°	5657.6
12.5°	5575.7
15°	5466.5
17.5°	5329.9
20°	5157.0
22.5°	4974.9
25°	4788.3
27.5°	4560.8
30°	4274.0
32.5°	3887.1
35°	3345.5
37.5°	2585.4
40°	1889.0
42.5°	1452.0
45°	1174.4
47.5°	965.0
50°	769.3
52.5°	578.1
55°	391.4
57.5°	245.8
60°	150.2
62.5°	91.1
65°	45.5
67.5°	22.7
70°	13.7
72.5°	4.5
75°	4.5
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)