

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: P585273

Luminaire Tested: **HC880D010-HM86080930-81MDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585273
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC880D010-HM86080930-81MDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5731.5 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.81
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

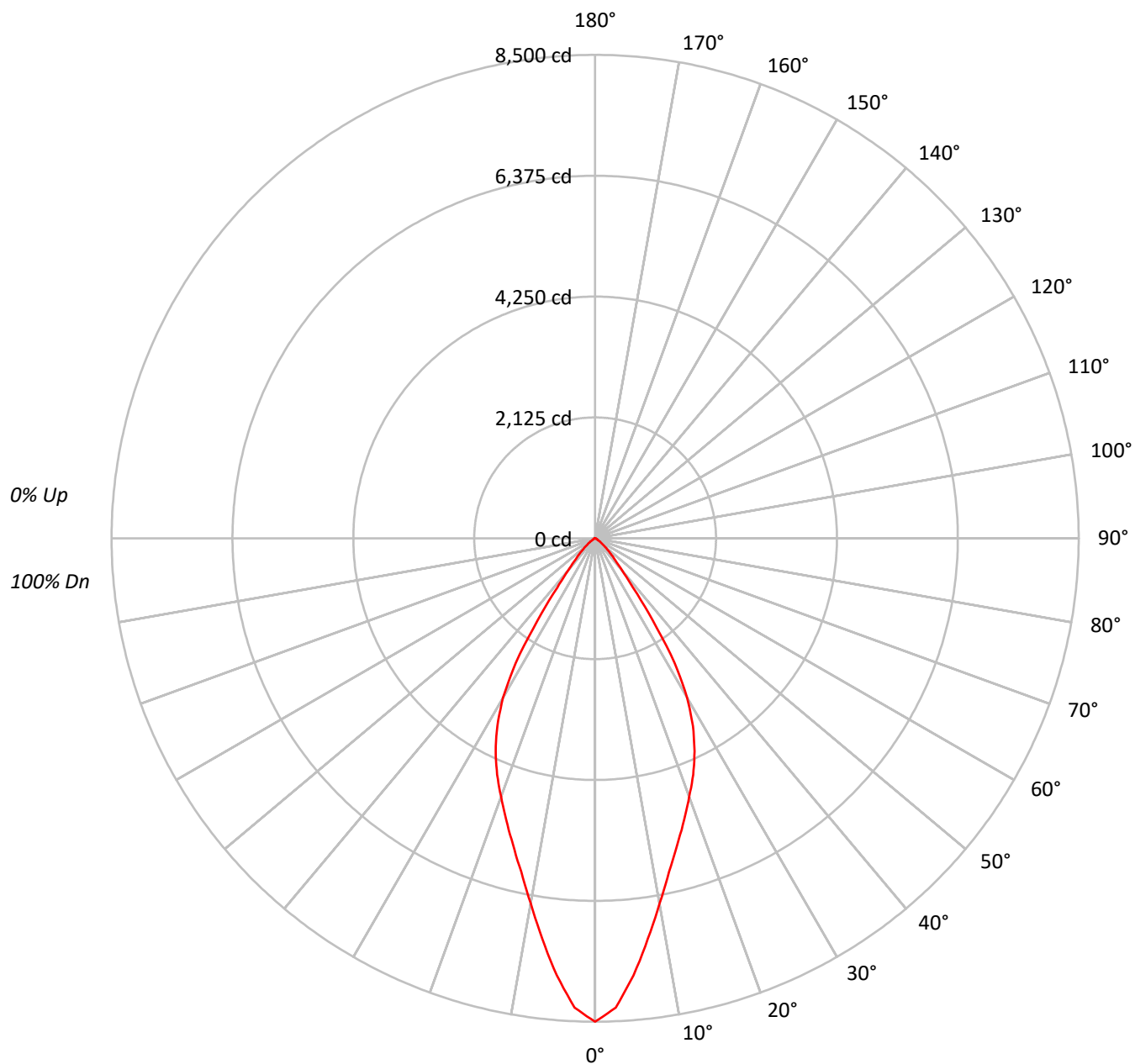
Input Watts (W): 70
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	114	111	108	106	111	109	106	104	105	103	101		101	99	98		97
2	108	103	99	96	106	101	98	95	98	95	93		95	93	91		92
3	103	96	91	87	101	95	90	87	92	88	85		90	87	84		88
4	97	90	85	80	96	89	84	80	87	82	79		85	81	78		83
5	93	84	79	74	91	83	78	74	82	77	73		80	76	73		78
6	88	79	73	69	87	78	73	69	77	72	68		76	71	68		74
7	84	75	69	64	82	74	68	64	73	68	64		71	67	64		70
8	80	70	64	60	79	70	64	60	69	64	60		68	63	60		67
9	76	67	61	57	75	66	61	57	65	60	56		64	60	56		63
10	73	63	57	54	72	63	57	53	62	57	53		61	56	53		60

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	262118
5°	238860
10°	204089
15°	177980
20°	158629
25°	140714
30°	115209
35°	66160
40°	29357
45°	17090
50°	9863
55°	5634
60°	3108
65°	1977
70°	1406
75°	917
80°	693
85°	1380



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	698.5	12.2
10°-20°	1567.1	27.3
20°-30°	1875.8	32.7
30°-40°	1134.8	19.8
40°-50°	318.0	5.5
50°-60°	98.7	1.7
60°-70°	28.2	0.5
70°-80°	7.6	0.1
80°-90°	2.7	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°	4141.4	72.3
0°-40°	5276.2	92.1
0°-60°	5693.0	99.3
0°-90°	5731.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5731.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8500	
5°	7717	699
15°	5575	1567
25°	4136	1876
35°	1758	1135
45°	392	318
55°	105	99
65°	27	28
75°	8	8
85°	4	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	8500.3
2.5°	8259.7
5°	7716.6
7.5°	7103.7
10°	6517.9
12.5°	6005.6
15°	5575.1
17.5°	5194.9
20°	4834.0
22.5°	4500.4
25°	4135.7
27.5°	3724.4
30°	3235.6
32.5°	2603.2
35°	1757.5
37.5°	1094.1
40°	729.3
42.5°	523.8
45°	391.9
47.5°	287.1
50°	205.6
52.5°	143.5
55°	104.8
57.5°	69.8
60°	50.4
62.5°	35.0
65°	27.1
67.5°	19.4
70°	15.6
72.5°	7.7
75°	7.7
77.5°	3.9
80°	3.9
82.5°	3.9
85°	3.9
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)