

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: P585278

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585278
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC880D010-HM86080930-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5770.3 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

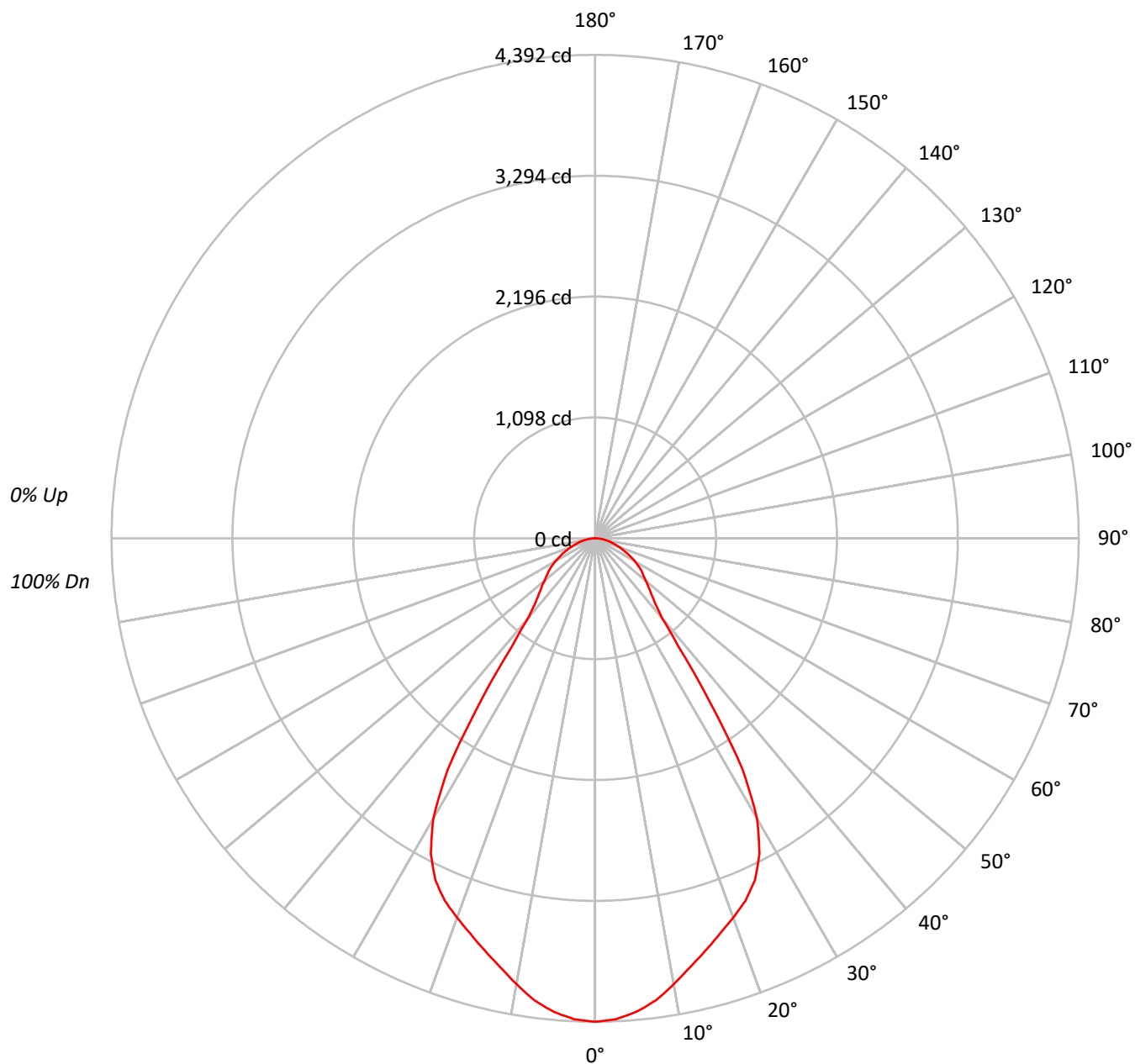
Input Watts (W): 70
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	105	102	109	106	103	100	101	99	97		98	96	94		94
2	104	98	92	88	102	96	91	87	92	88	85		89	86	83		86
3	97	89	83	77	95	87	82	77	85	80	76		82	78	74		80
4	91	81	74	69	89	80	74	69	78	72	68		76	71	67		74
5	85	75	68	62	83	74	67	62	72	66	61		70	65	61		68
6	80	69	62	57	78	68	61	56	67	61	56		65	60	56		64
7	75	64	57	52	74	63	57	52	62	56	51		61	55	51		60
8	71	60	53	48	70	59	52	48	58	52	47		57	51	47		56
9	67	56	49	44	66	55	49	44	54	48	44		53	48	44		52
10	64	52	46	41	62	52	45	41	51	45	41		50	45	41		49

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	135449
5°	133685
10°	128789
15°	123751
20°	120330
25°	116706
30°	104726
35°	68652
40°	37955
45°	31643
50°	28851
55°	27537
60°	25606
65°	23217
70°	20989
75°	18956
80°	17225
85°	16487



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.8	7.0
10°-20°	1093.7	19.0
20°-30°	1556.4	27.0
30°-40°	1151.9	20.0
40°-50°	570.6	9.9
50°-60°	455.4	7.9
60°-70°	316.1	5.5
70°-80°	170.4	3.0
80°-90°	50.1	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°	3055.8	53.0
0°-40°	4207.8	72.9
0°-60°	5233.7	90.7
0°-90°	5770.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5770.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4392	
5°	4319	406
15°	3876	1094
25°	3430	1556
35°	1824	1152
45°	726	571
55°	512	455
65°	318	316
75°	159	170
85°	47	50
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4392.5
2.5°	4373.0
5°	4318.8
7.5°	4233.4
10°	4113.1
12.5°	3989.0
15°	3876.4
17.5°	3767.7
20°	3666.9
22.5°	3565.9
25°	3430.1
27.5°	3232.3
30°	2941.2
32.5°	2495.0
35°	1823.7
37.5°	1245.6
40°	942.9
42.5°	807.1
45°	725.6
47.5°	659.7
50°	601.4
52.5°	551.0
55°	512.2
57.5°	465.6
60°	415.2
62.5°	364.8
65°	318.2
67.5°	271.6
70°	232.8
72.5°	194.0
75°	159.1
77.5°	128.1
80°	97.0
82.5°	69.8
85°	46.6
87.5°	19.4
90°	0.0



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— 0°-180°







(END OF REPORT)