

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: P585282

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585282
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-HM86080930-81WDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6519.3 lumens
Efficiency: N/A
Efficacy: 93.1 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

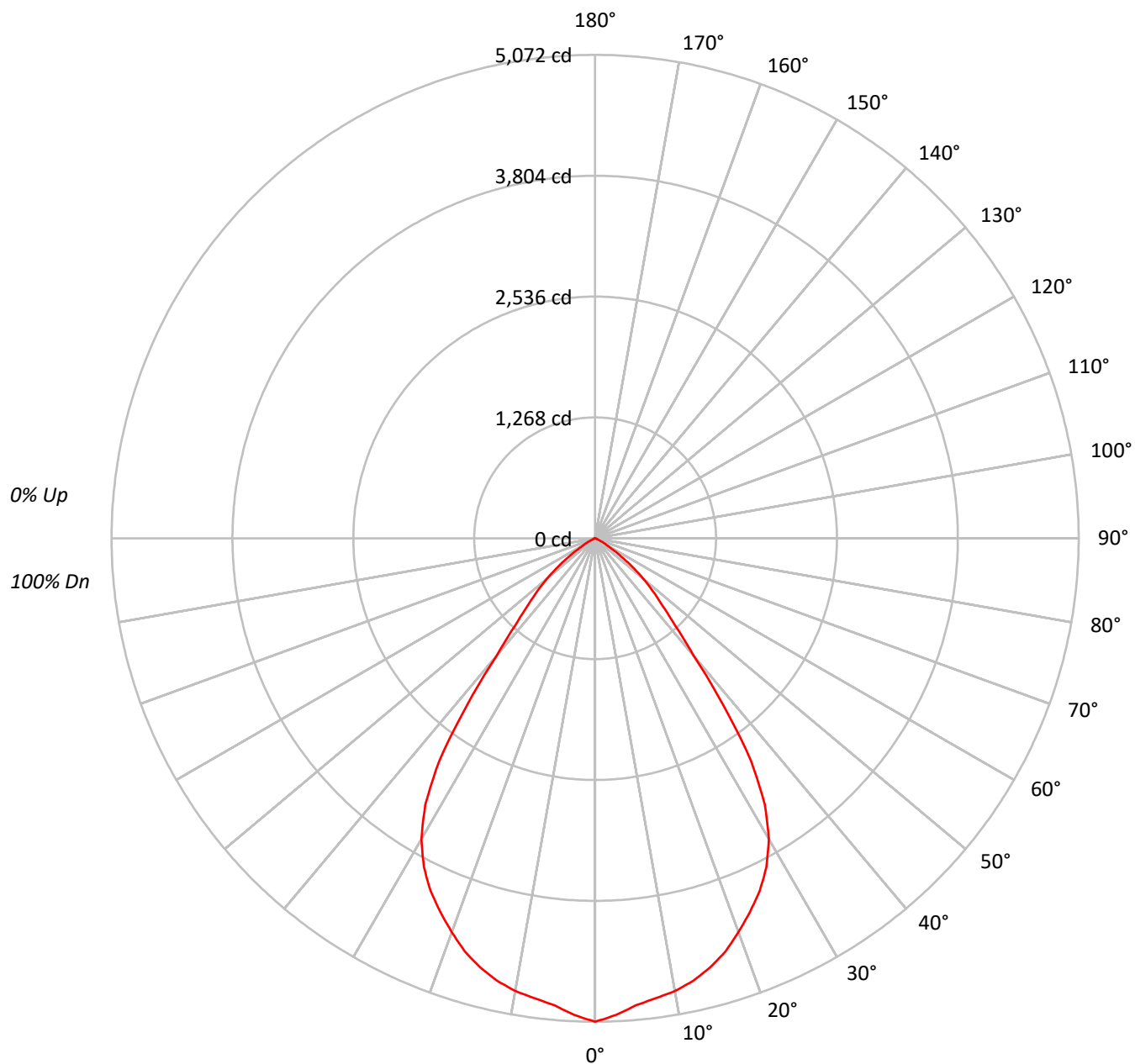
Input Watts (W): 70
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	156411
5°	152204
10°	151046
15°	148795
20°	144289
25°	138910
30°	129758
35°	107376
40°	64833
45°	43666
50°	31465
55°	17946
60°	7900
65°	2831
70°	1055
75°	465
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.1	7.2
10°-20°	1309.9	20.1
20°-30°	1868.6	28.7
30°-40°	1701.5	26.1
40°-50°	802.7	12.3
50°-60°	315.7	4.8
60°-70°	50.3	0.8
70°-80°	3.6	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°	3645.6	55.9
0°-40°	5347.1	82.0
0°-60°	6465.4	99.2
0°-90°	6519.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6519.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5072	
5°	4917	467
15°	4661	1310
25°	4083	1869
35°	2852	1702
45°	1001	803
55°	334	316
65°	39	50
75°	4	4
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5072.3
2.5°	5006.3
5°	4917.1
7.5°	4866.6
10°	4823.9
12.5°	4754.1
15°	4660.9
17.5°	4544.5
20°	4397.0
22.5°	4241.8
25°	4082.7
27.5°	3888.6
30°	3644.2
32.5°	3314.2
35°	2852.4
37.5°	2204.3
40°	1610.6
42.5°	1238.0
45°	1001.3
47.5°	822.8
50°	655.9
52.5°	492.8
55°	333.8
57.5°	209.6
60°	128.1
62.5°	77.6
65°	38.8
67.5°	19.4
70°	11.7
72.5°	3.9
75°	3.9
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)