

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: P585285

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585285
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC880D010-HM86080930-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6391.2 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

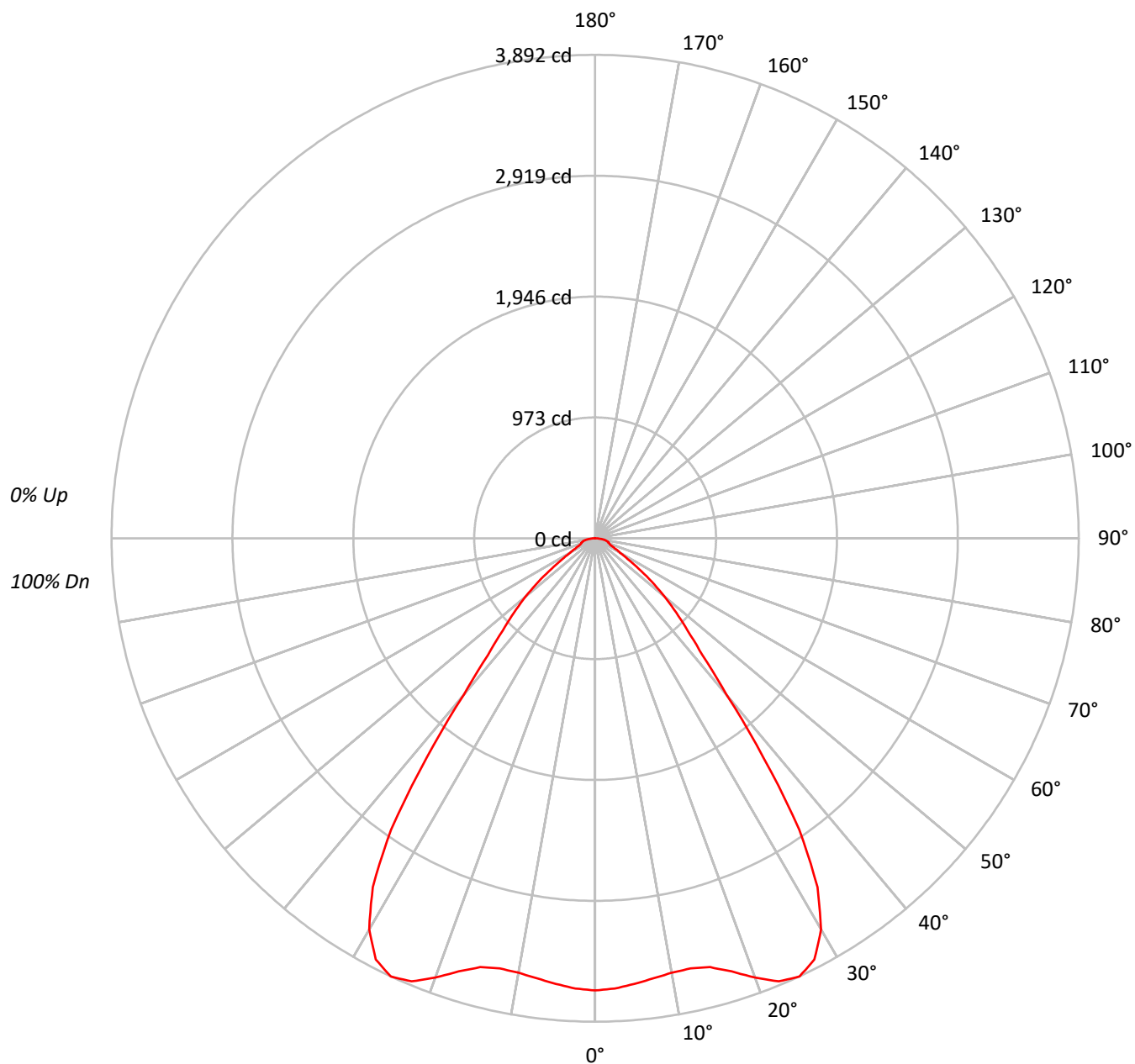
Input Watts (W): 70
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	103	109	106	103	101	102	100	98		98	97	95		95
2	105	99	94	89	102	97	92	88	93	90	86		90	87	84		88
3	98	90	84	79	96	88	83	78	86	81	77		83	79	76		81
4	92	82	75	70	90	81	75	70	79	73	69		77	72	68		75
5	86	75	68	63	84	74	68	63	73	67	62		71	66	62		69
6	80	69	62	57	79	69	62	57	67	61	56		65	60	56		64
7	75	64	57	52	74	63	57	52	62	56	51		61	55	51		59
8	71	59	52	47	69	59	52	47	58	51	47		56	51	47		55
9	67	55	48	43	65	55	48	43	54	47	43		53	47	43		52
10	63	51	45	40	62	51	44	40	50	44	40		49	44	40		48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	112244
5°	111472
10°	111183
15°	114097
20°	123527
25°	132432
30°	129473
35°	107809
40°	66230
45°	45864
50°	35001
55°	22951
60°	14357
65°	10755
70°	10846
75°	12486
80°	13780
85°	12383



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.2	5.4
10°-20°	1026.0	16.1
20°-30°	1766.3	27.6
30°-40°	1711.2	26.8
40°-50°	842.9	13.2
50°-60°	397.7	6.2
60°-70°	156.7	2.5
70°-80°	108.1	1.7
80°-90°	40.2	0.6
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°	3134.4	49.0
0°-40°	4845.6	75.8
0°-60°	6086.2	95.2
0°-90°	6391.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6391.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3640	
5°	3601	342
15°	3574	1026
25°	3892	1766
35°	2864	1711
45°	1052	843
55°	427	398
65°	147	157
75°	105	108
85°	35	40
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3640.0
2.5°	3628.4
5°	3601.2
7.5°	3574.0
10°	3550.8
12.5°	3546.9
15°	3574.0
17.5°	3655.6
20°	3764.3
22.5°	3861.3
25°	3892.3
27.5°	3822.4
30°	3636.2
32.5°	3329.6
35°	2863.9
37.5°	2223.5
40°	1645.3
42.5°	1276.7
45°	1051.7
47.5°	884.7
50°	729.6
52.5°	574.3
55°	426.9
57.5°	310.4
60°	232.8
62.5°	182.4
65°	147.4
67.5°	128.1
70°	120.3
72.5°	112.5
75°	104.8
77.5°	93.1
80°	77.6
82.5°	58.3
85°	35.0
87.5°	15.6
90°	0.0



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— 0°-180°







(END OF REPORT)