

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: P585165

Luminaire Tested: **HC860D010-HM86080935-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585165
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC860D010-HM86080935-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5673.9 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

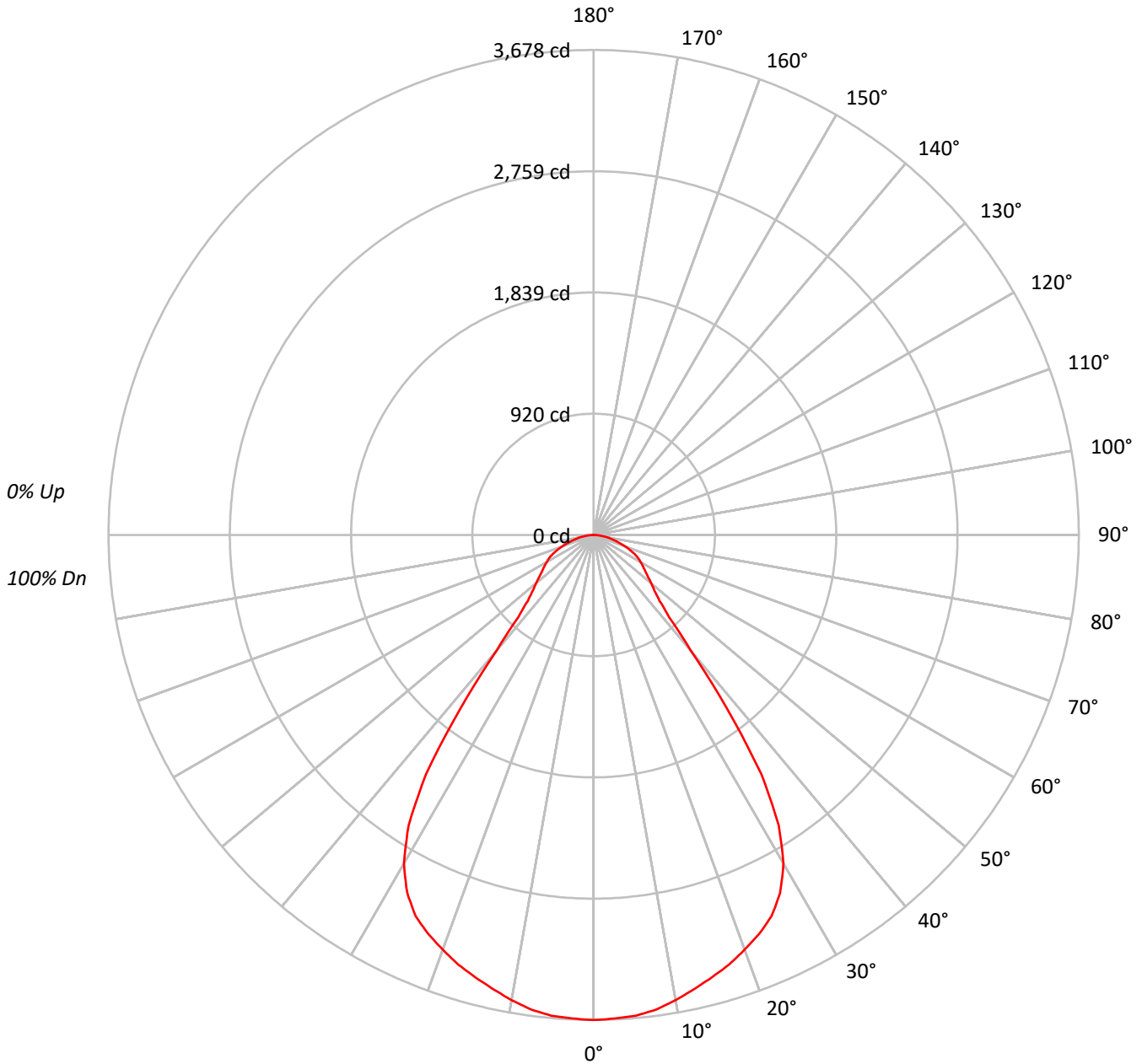
Input Watts (W): 56
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89				89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79				79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70				70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63				63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57				57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52				52
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48				48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44				44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40				40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37				37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	113431
5°	113295
10°	112175
15°	110831
20°	109803
25°	108571
30°	102441
35°	83420
40°	46091
45°	30762
50°	27282
55°	25617
60°	25280
65°	25063
70°	22639
75°	20242
80°	17722
85°	15674



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.9	6.1
10°-20°	980.3	17.3
20°-30°	1456.6	25.7
30°-40°	1311.7	23.1
40°-50°	581.5	10.2
50°-60°	430.7	7.6
60°-70°	334.9	5.9
70°-80°	181.6	3.2
80°-90°	49.7	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°	2783.7	49.1
0°-40°	4095.4	72.2
0°-60°	5107.7	90.0
0°-90°	5673.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5673.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3678	
5°	3660	347
15°	3472	980
25°	3191	1457
35°	2216	1312
45°	705	582
55°	476	431
65°	344	335
75°	170	182
85°	44	50
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3678.5
2.5°	3671.2
5°	3660.1
7.5°	3630.6
10°	3582.5
12.5°	3527.1
15°	3471.7
17.5°	3416.3
20°	3346.1
22.5°	3276.0
25°	3191.0
27.5°	3061.7
30°	2877.0
32.5°	2611.2
35°	2216.0
37.5°	1654.6
40°	1145.0
42.5°	845.8
45°	705.4
47.5°	624.2
50°	568.7
52.5°	517.1
55°	476.5
57.5°	443.3
60°	409.9
62.5°	380.4
65°	343.5
67.5°	299.2
70°	251.1
72.5°	210.5
75°	169.9
77.5°	133.0
80°	99.8
82.5°	70.1
85°	44.3
87.5°	18.5
90°	0.0



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— 0°-180°







(END OF REPORT)