

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: P585073

Luminaire Tested: **HC860D010-HM86080830-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585073
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC860D010-HM86080830-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4634.8 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

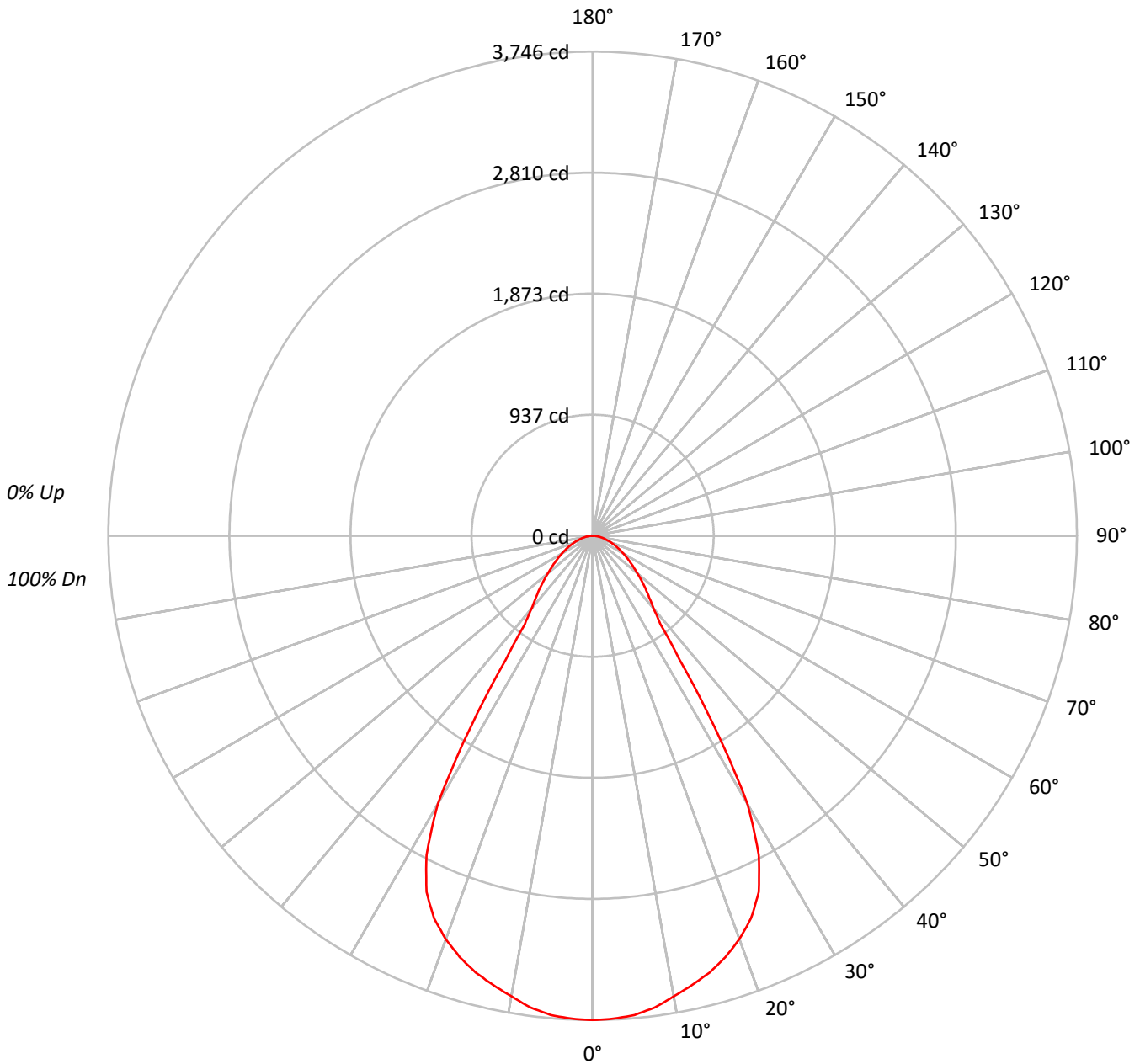
Input Watts (W): 56
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			90
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81			81
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73			73
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67			67
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			61
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56			56
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52			52
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			48
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45			45
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42			42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	115525
5°	115214
10°	113293
15°	111642
20°	108963
25°	103433
30°	85314
35°	43927
40°	29410
45°	25215
50°	21760
55°	18989
60°	16874
65°	15155
70°	13740
75°	12379
80°	11063
85°	11003



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.9	7.6
10°-20°	983.9	21.2
20°-30°	1363.2	29.4
30°-40°	818.8	17.7
40°-50°	448.3	9.7
50°-60°	318.5	6.9
60°-70°	206.7	4.5
70°-80°	110.5	2.4
80°-90°	32.9	0.7
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°	2699.1	58.2
0°-40°	3517.9	75.9
0°-60°	4284.6	92.4
0°-90°	4634.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4634.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3746	
5°	3722	352
15°	3497	984
25°	3040	1363
35°	1167	819
45°	578	448
55°	353	318
65°	208	207
75°	104	110
85°	31	33
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3746.4
2.5°	3739.4
5°	3722.1
7.5°	3680.6
10°	3618.2
12.5°	3559.4
15°	3497.1
17.5°	3417.4
20°	3320.5
22.5°	3202.8
25°	3040.0
27.5°	2783.8
30°	2396.0
32.5°	1755.5
35°	1166.9
37.5°	862.2
40°	730.6
42.5°	647.5
45°	578.2
47.5°	512.5
50°	453.6
52.5°	398.2
55°	353.2
57.5°	311.6
60°	273.6
62.5°	238.9
65°	207.7
67.5°	176.6
70°	152.4
72.5°	124.7
75°	103.9
77.5°	83.0
80°	62.3
82.5°	45.0
85°	31.1
87.5°	13.8
90°	0.0



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— 0°-180°







(END OF REPORT)