

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: P585081

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585081
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: HC860D010-HM86080830-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5700.7 lumens
Efficiency: N/A
Efficacy: 101.8 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

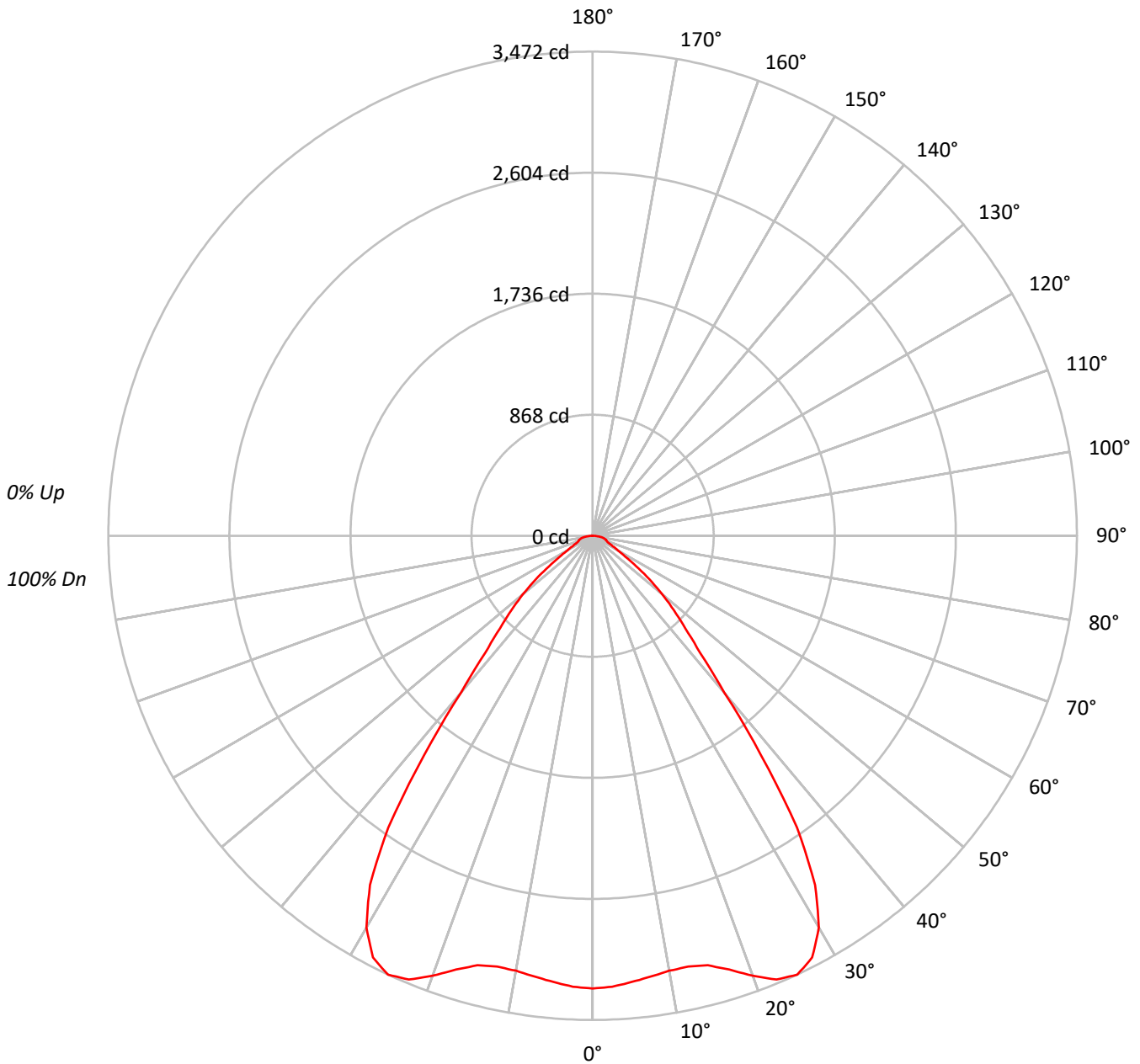
Input Watts (W): 56
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90			90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81			81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73			73
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			65
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59			59
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54			54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49			49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45			45
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41			41
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	100119
5°	99431
10°	99171
15°	101774
20°	110177
25°	118125
30°	115487
35°	96166
40°	59081
45°	40910
50°	31216
55°	20467
60°	12809
65°	9595
70°	9674
75°	11128
80°	12288
85°	11003



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.2	5.4
10°-20°	915.2	16.1
20°-30°	1575.5	27.6
30°-40°	1526.4	26.8
40°-50°	751.8	13.2
50°-60°	354.8	6.2
60°-70°	139.8	2.5
70°-80°	96.4	1.7
80°-90°	35.7	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°	2795.8	49.0
0°-40°	4322.2	75.8
0°-60°	5428.8	95.2
0°-90°	5700.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5700.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3247	
5°	3212	305
15°	3188	915
25°	3472	1575
35°	2555	1526
45°	938	752
55°	381	355
65°	132	140
75°	93	96
85°	31	36
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3246.8
2.5°	3236.4
5°	3212.2
7.5°	3188.0
10°	3167.2
12.5°	3163.8
15°	3188.0
17.5°	3260.7
20°	3357.5
22.5°	3444.2
25°	3471.8
27.5°	3409.5
30°	3243.4
32.5°	2969.9
35°	2554.6
37.5°	1983.4
40°	1467.7
42.5°	1138.8
45°	938.1
47.5°	789.2
50°	650.7
52.5°	512.3
55°	380.7
57.5°	276.9
60°	207.7
62.5°	162.6
65°	131.5
67.5°	114.2
70°	107.3
72.5°	100.3
75°	93.4
77.5°	83.0
80°	69.2
82.5°	51.9
85°	31.1
87.5°	13.8
90°	0.0



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— 0°-180°







(END OF REPORT)