

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: P585064

Luminaire Tested: **HC860D010-HM86080827-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585064
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-HM86080827-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5742.4 lumens
Efficiency: N/A
Efficacy: 102.5 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

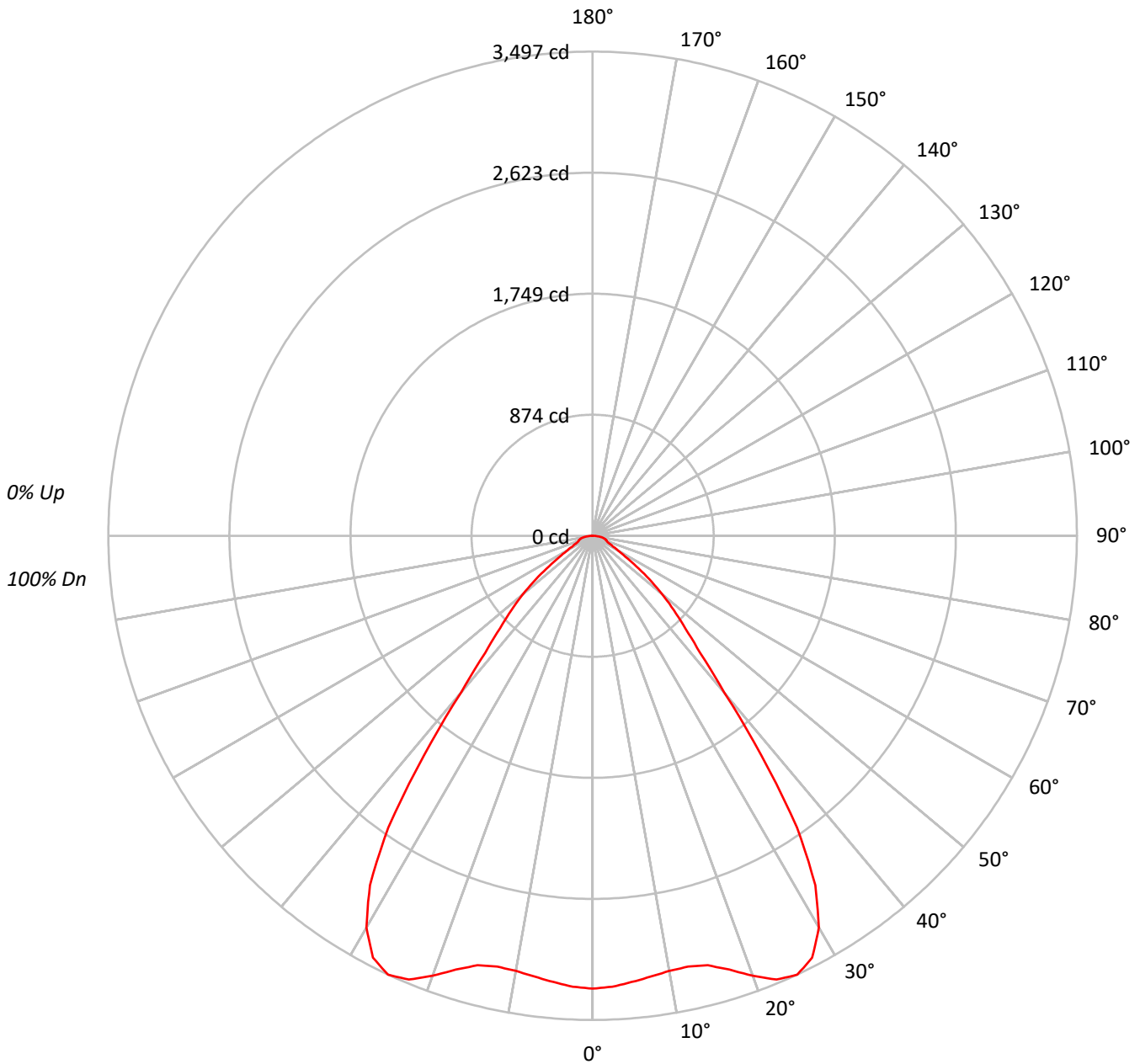
Input Watts (W): 56
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59			
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49			
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45			
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41			
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	100850
5°	100155
10°	99895
15°	102515
20°	110985
25°	118986
30°	116327
35°	96862
40°	59507
45°	41206
50°	31446
55°	20618
60°	12902
65°	9668
70°	9746
75°	11211
80°	12395
85°	11110



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.4	5.4
10°-20°	921.8	16.1
20°-30°	1586.9	27.6
30°-40°	1537.5	26.8
40°-50°	757.3	13.2
50°-60°	357.3	6.2
60°-70°	140.8	2.5
70°-80°	97.2	1.7
80°-90°	36.0	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°	2816.2	49.0
0°-40°	4353.7	75.8
0°-60°	5468.3	95.2
0°-90°	5742.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5742.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3270	
5°	3236	307
15°	3211	922
25°	3497	1587
35°	2573	1537
45°	945	757
55°	384	357
65°	132	141
75°	94	97
85°	31	36
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3270.5
2.5°	3260.1
5°	3235.6
7.5°	3211.2
10°	3190.3
12.5°	3186.8
15°	3211.2
17.5°	3284.4
20°	3382.1
22.5°	3469.2
25°	3497.1
27.5°	3434.4
30°	3267.0
32.5°	2991.6
35°	2573.1
37.5°	1997.9
40°	1478.3
42.5°	1147.2
45°	944.9
47.5°	794.9
50°	655.5
52.5°	516.0
55°	383.5
57.5°	278.9
60°	209.2
62.5°	163.9
65°	132.5
67.5°	115.1
70°	108.1
72.5°	101.2
75°	94.1
77.5°	83.7
80°	69.8
82.5°	52.2
85°	31.4
87.5°	14.0
90°	0.0



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— 0°-180°







(END OF REPORT)