

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: P585070

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585070
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC860D010-HM86080830-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5126.2 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

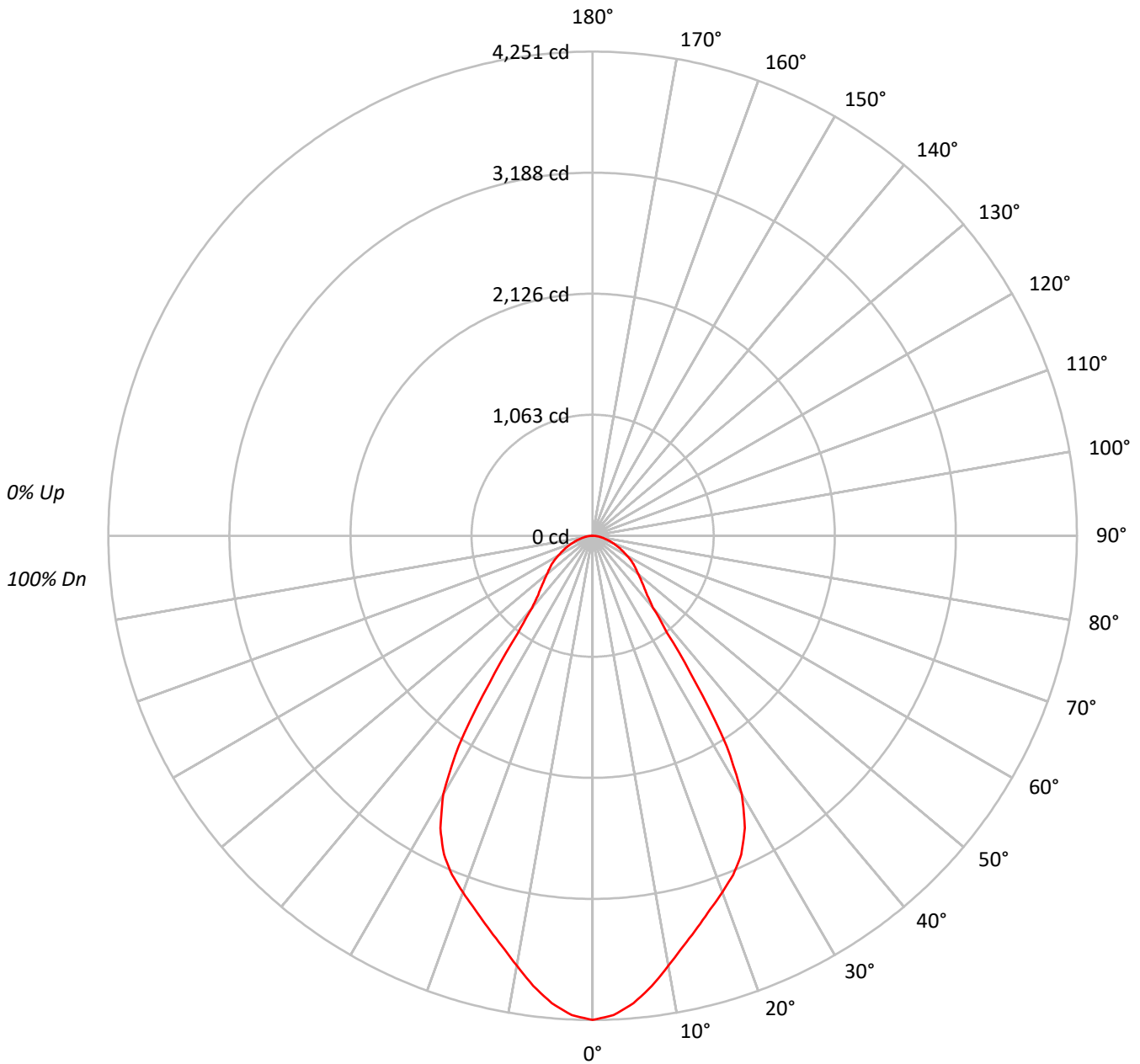
Input Watts (W): 56
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			65
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59			59
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54			54
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50			50
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			46
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			43
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40			40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	131076
5°	127509
10°	119985
15°	113602
20°	109275
25°	105056
30°	93304
35°	59418
40°	33165
45°	27775
50°	25075
55°	23634
60°	21561
65°	19452
70°	17166
75°	15250
80°	13514
85°	12242



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.0	7.5
10°-20°	1003.6	19.6
20°-30°	1400.1	27.3
30°-40°	1007.4	19.7
40°-50°	499.2	9.7
50°-60°	390.6	7.6
60°-70°	264.5	5.2
70°-80°	137.3	2.7
80°-90°	39.5	0.8
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°	2787.6	54.4
0°-40°	3795.0	74.0
0°-60°	4684.9	91.4
0°-90°	5126.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5126.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4251	
5°	4119	384
15°	3558	1004
25°	3088	1400
35°	1578	1007
45°	637	499
55°	440	391
65°	267	264
75°	128	137
85°	35	40
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4250.7
2.5°	4212.7
5°	4119.3
7.5°	3987.6
10°	3831.9
12.5°	3686.5
15°	3558.5
17.5°	3437.2
20°	3330.0
22.5°	3222.7
25°	3087.7
27.5°	2893.9
30°	2620.4
32.5°	2191.1
35°	1578.4
37.5°	1076.6
40°	823.9
42.5°	709.6
45°	636.9
47.5°	574.6
50°	522.7
52.5°	477.7
55°	439.6
57.5°	394.6
60°	349.6
62.5°	304.6
65°	266.6
67.5°	228.5
70°	190.4
72.5°	159.3
75°	128.0
77.5°	100.3
80°	76.1
82.5°	55.4
85°	34.6
87.5°	17.3
90°	0.0



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— 0°-180°







(END OF REPORT)