

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: P585087

Luminaire Tested: **HC860D010-HM86080835-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585087
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-HM86080835-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6165.4 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

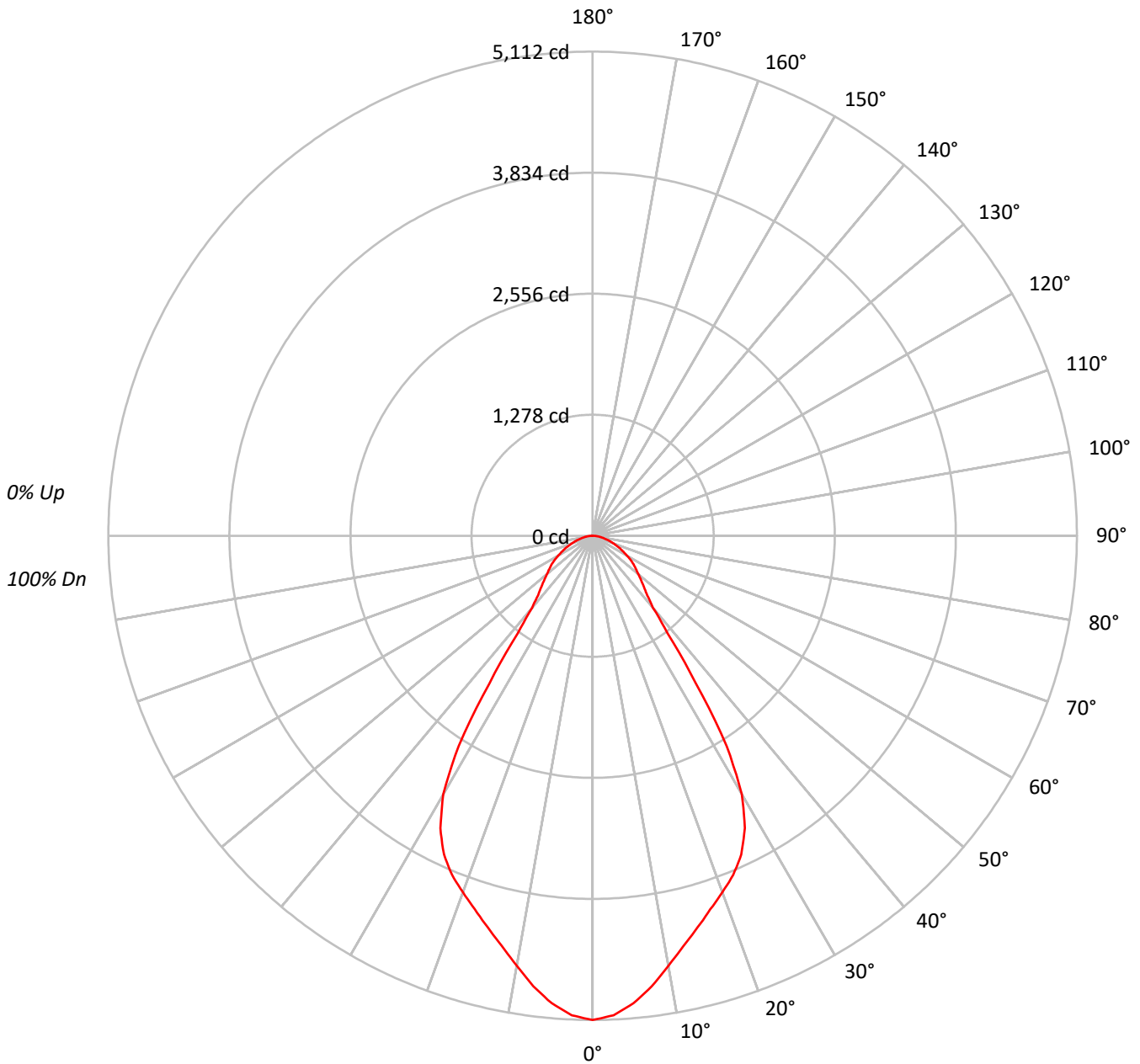
Input Watts (W): 56
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59			
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54			
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	157648
5°	153356
10°	144311
15°	136629
20°	131429
25°	126352
30°	112218
35°	71467
40°	39888
45°	33409
50°	30156
55°	28424
60°	25933
65°	23385
70°	20637
75°	18360
80°	16266
85°	14718



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.9	7.5
10°-20°	1207.0	19.6
20°-30°	1683.9	27.3
30°-40°	1211.7	19.7
40°-50°	600.5	9.7
50°-60°	469.8	7.6
60°-70°	318.0	5.2
70°-80°	165.2	2.7
80°-90°	47.6	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°	3352.7	54.4
0°-40°	4564.4	74.0
0°-60°	5634.7	91.4
0°-90°	6165.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6165.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5112	
5°	4954	462
15°	4280	1207
25°	3714	1684
35°	1898	1212
45°	766	600
55°	529	470
65°	320	318
75°	154	165
85°	42	48
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5112.4
2.5°	5066.7
5°	4954.3
7.5°	4796.1
10°	4608.8
12.5°	4433.9
15°	4279.8
17.5°	4134.1
20°	4005.1
22.5°	3876.0
25°	3713.6
27.5°	3480.5
30°	3151.6
32.5°	2635.4
35°	1898.5
37.5°	1294.8
40°	990.9
42.5°	853.5
45°	766.1
47.5°	691.1
50°	628.6
52.5°	574.5
55°	528.7
57.5°	474.6
60°	420.5
62.5°	366.3
65°	320.5
67.5°	274.7
70°	228.9
72.5°	191.5
75°	154.1
77.5°	120.8
80°	91.6
82.5°	66.7
85°	41.6
87.5°	20.8
90°	0.0



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— 0°-180°







(END OF REPORT)