

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: P593881

Luminaire Tested: **HC860D010-HM86080950-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593881
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-HM86080950-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5642.9 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

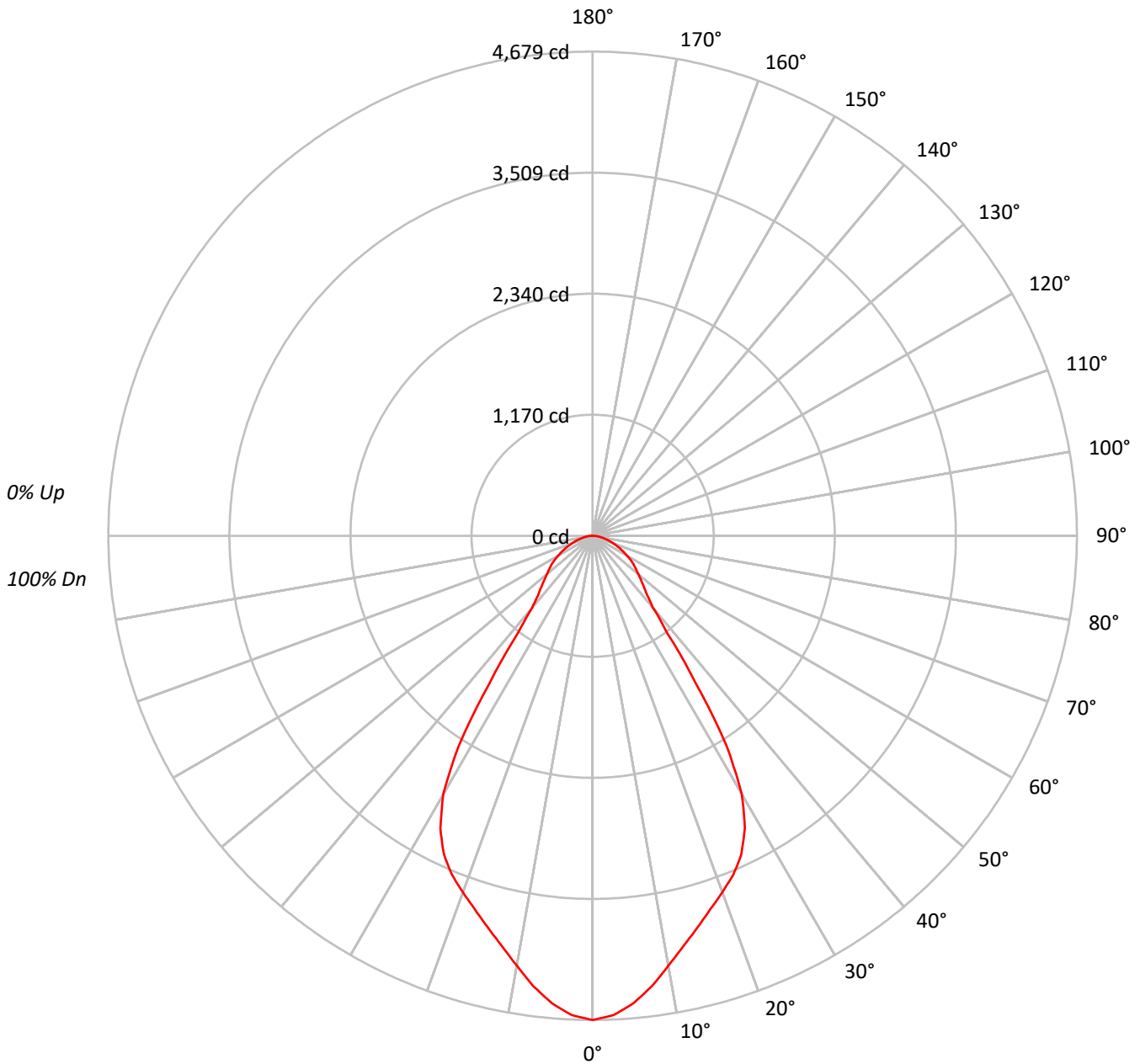
Input Watts (W): 56
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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°	144289
5°	140358
10°	132077
15°	125050
20°	120288
25°	115641
30°	102704
35°	65411
40°	36506
45°	30579
50°	27599
55°	26021
60°	23738
65°	21408
70°	18897
75°	16787
80°	14899
85°	13480



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.7	7.5
10°-20°	1104.7	19.6
20°-30°	1541.1	27.3
30°-40°	1108.9	19.7
40°-50°	549.6	9.7
50°-60°	430.0	7.6
60°-70°	291.1	5.2
70°-80°	151.2	2.7
80°-90°	43.5	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°	3068.6	54.4
0°-40°	4177.5	74.0
0°-60°	5157.1	91.4
0°-90°	5642.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5642.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4679	
5°	4534	423
15°	3917	1105
25°	3399	1541
35°	1738	1109
45°	701	550
55°	484	430
65°	293	291
75°	141	151
85°	38	44
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4679.2
2.5°	4637.2
5°	4534.4
7.5°	4389.6
10°	4218.1
12.5°	4058.1
15°	3917.1
17.5°	3783.7
20°	3665.6
22.5°	3547.5
25°	3398.8
27.5°	3185.5
30°	2884.4
32.5°	2412.0
35°	1737.6
37.5°	1185.0
40°	906.9
42.5°	781.1
45°	701.2
47.5°	632.5
50°	575.3
52.5°	525.8
55°	484.0
57.5°	434.4
60°	384.9
62.5°	335.3
65°	293.4
67.5°	251.4
70°	209.6
72.5°	175.3
75°	140.9
77.5°	110.5
80°	83.9
82.5°	61.0
85°	38.1
87.5°	19.0
90°	0.0



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— 0°-180°







(END OF REPORT)