

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: P585141

Luminaire Tested: **HC860D010-HM86080930-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585141
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC860D010-HM86080930-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4350.0 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

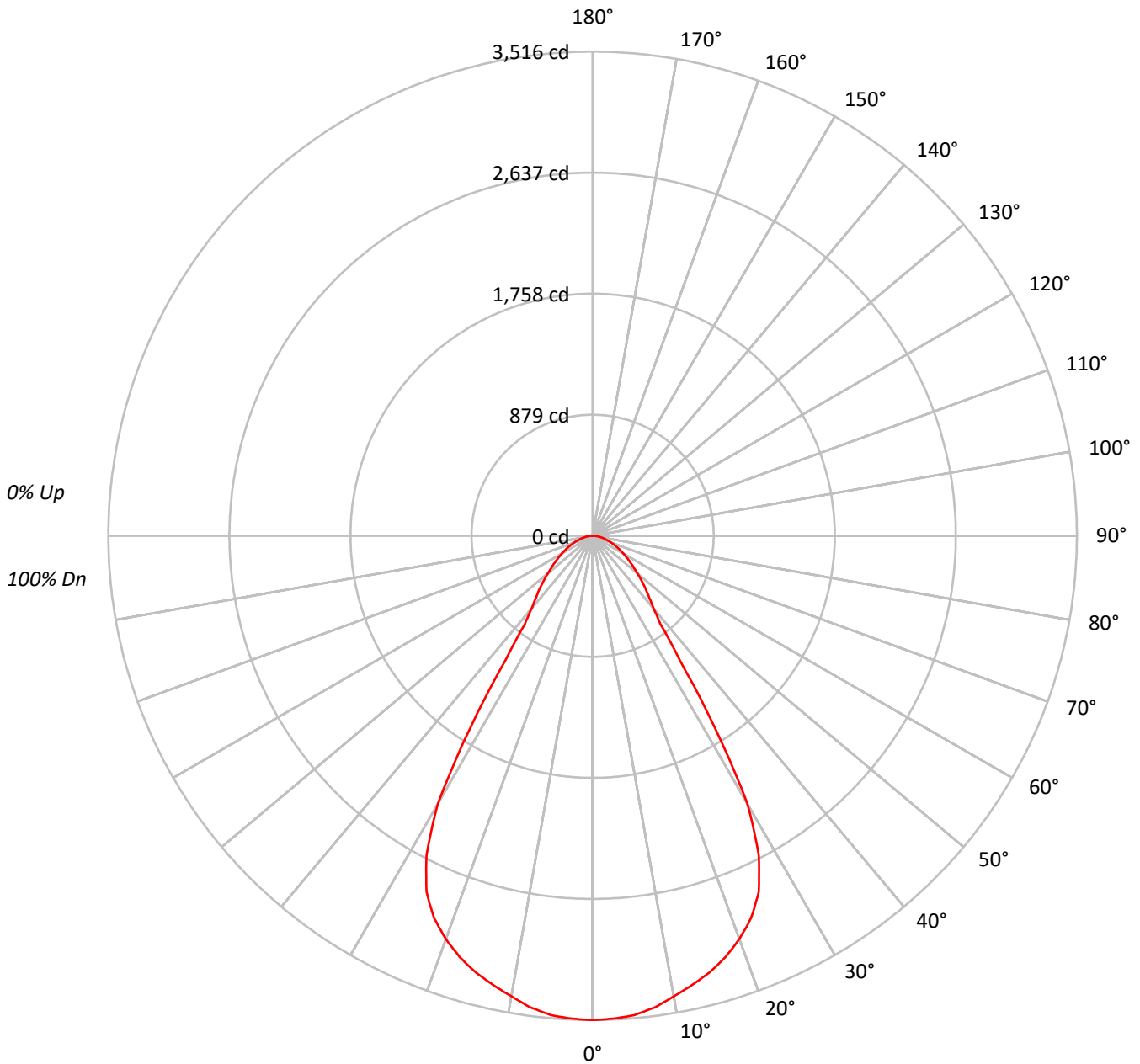
Input Watts (W): 56
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	101	102	100	98	98	96	95	95	93	92	90																			
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81																			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73																			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67																			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61																			
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56																			
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52																			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48																			
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45																			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	108430
5°	108135
10°	106336
15°	104781
20°	102269
25°	97081
30°	80072
35°	41228
40°	27602
45°	23667
50°	20422
55°	17822
60°	15831
65°	14228
70°	12893
75°	11616
80°	10388
85°	10367



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.3	7.6
10°-20°	923.5	21.2
20°-30°	1279.5	29.4
30°-40°	768.5	17.7
40°-50°	420.7	9.7
50°-60°	298.9	6.9
60°-70°	194.0	4.5
70°-80°	103.7	2.4
80°-90°	31.0	0.7
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°	2533.2	58.2
0°-40°	3301.8	75.9
0°-60°	4021.4	92.4
0°-90°	4350.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4350.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3516	
5°	3493	330
15°	3282	923
25°	2853	1279
35°	1095	769
45°	543	421
55°	332	299
65°	195	194
75°	98	104
85°	29	31
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3516.3
2.5°	3509.7
5°	3493.4
7.5°	3454.4
10°	3396.0
12.5°	3340.7
15°	3282.2
17.5°	3207.5
20°	3116.5
22.5°	3006.0
25°	2853.3
27.5°	2612.8
30°	2248.8
32.5°	1647.6
35°	1095.2
37.5°	809.2
40°	685.7
42.5°	607.7
45°	542.7
47.5°	481.0
50°	425.7
52.5°	373.7
55°	331.5
57.5°	292.5
60°	256.7
62.5°	224.2
65°	195.0
67.5°	165.7
70°	143.0
72.5°	117.0
75°	97.5
77.5°	78.0
80°	58.5
82.5°	42.2
85°	29.3
87.5°	13.0
90°	0.0



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— 0°-180°







(END OF REPORT)