

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: P584546

Luminaire Tested: **HC840D010-HM82555835-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584546
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: HC840D010-HM82555835-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4288.0 lumens
Efficiency: N/A
Efficacy: 104.6 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

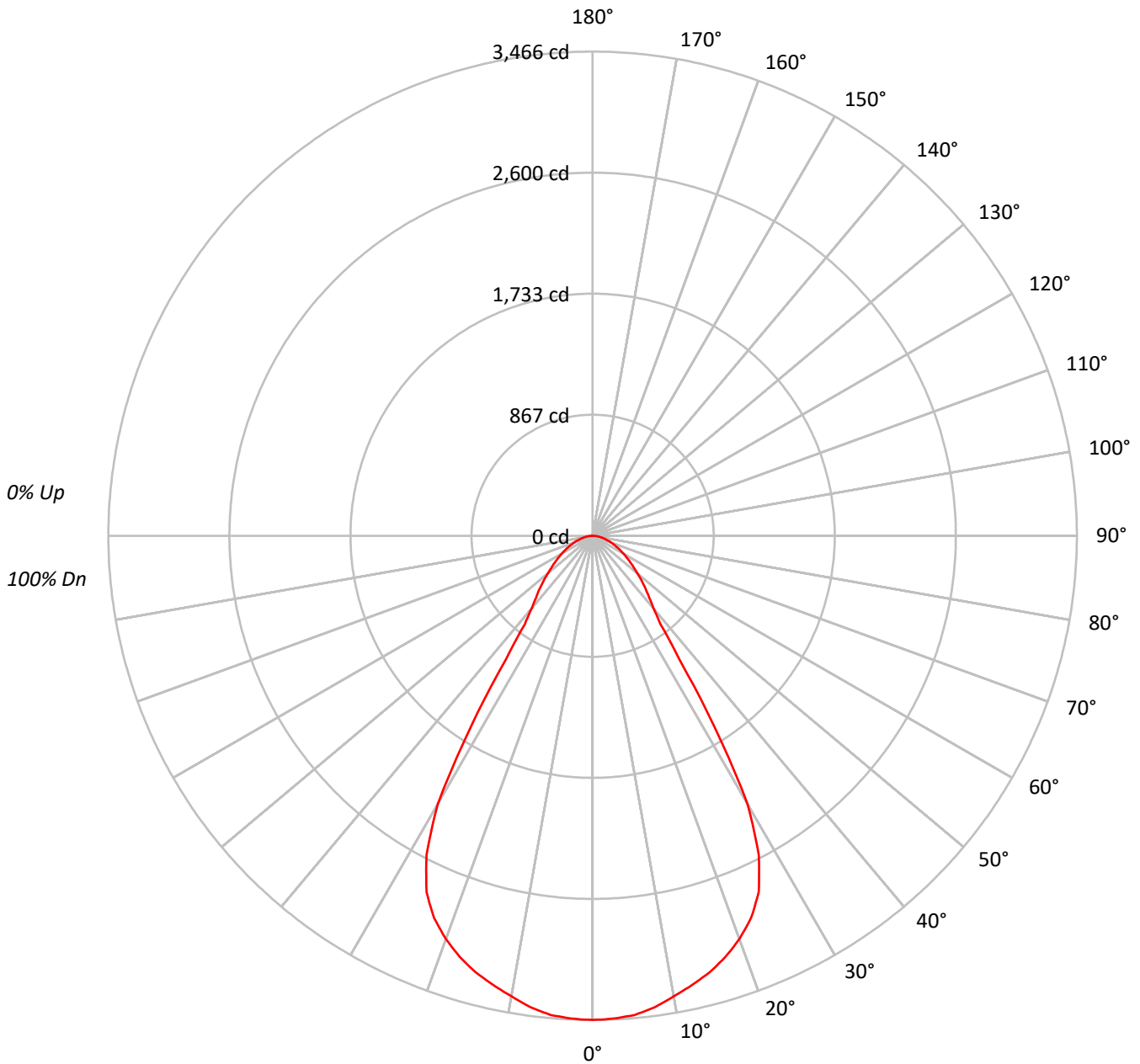
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	106879
5°	106594
10°	104817
15°	103287
20°	100809
25°	95696
30°	78929
35°	40641
40°	27208
45°	23327
50°	20129
55°	17569
60°	15609
65°	14024
70°	12703
75°	11461
80°	10246
85°	10190



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.6	7.6
10°-20°	910.3	21.2
20°-30°	1261.2	29.4
30°-40°	757.6	17.7
40°-50°	414.7	9.7
50°-60°	294.6	6.9
60°-70°	191.3	4.5
70°-80°	102.2	2.4
80°-90°	30.5	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°	2497.1	58.2
0°-40°	3254.7	75.9
0°-60°	3964.0	92.4
0°-90°	4288.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4288.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3466	
5°	3444	326
15°	3235	910
25°	2813	1261
35°	1080	758
45°	535	415
55°	327	295
65°	192	191
75°	96	102
85°	29	31
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3466.0
2.5°	3459.6
5°	3443.6
7.5°	3405.2
10°	3347.5
12.5°	3293.0
15°	3235.4
17.5°	3161.7
20°	3072.0
22.5°	2963.1
25°	2812.6
27.5°	2575.5
30°	2216.7
32.5°	1624.1
35°	1079.6
37.5°	797.7
40°	675.9
42.5°	599.0
45°	534.9
47.5°	474.1
50°	419.6
52.5°	368.4
55°	326.8
57.5°	288.3
60°	253.1
62.5°	221.0
65°	192.2
67.5°	163.4
70°	140.9
72.5°	115.3
75°	96.2
77.5°	76.9
80°	57.7
82.5°	41.6
85°	28.8
87.5°	12.9
90°	0.0



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— 0°-180°







(END OF REPORT)