

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: P584615

Luminaire Tested: **HC840D010-HM82555935-81PSMDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584615
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC840D010-HM82555935-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4440.7 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

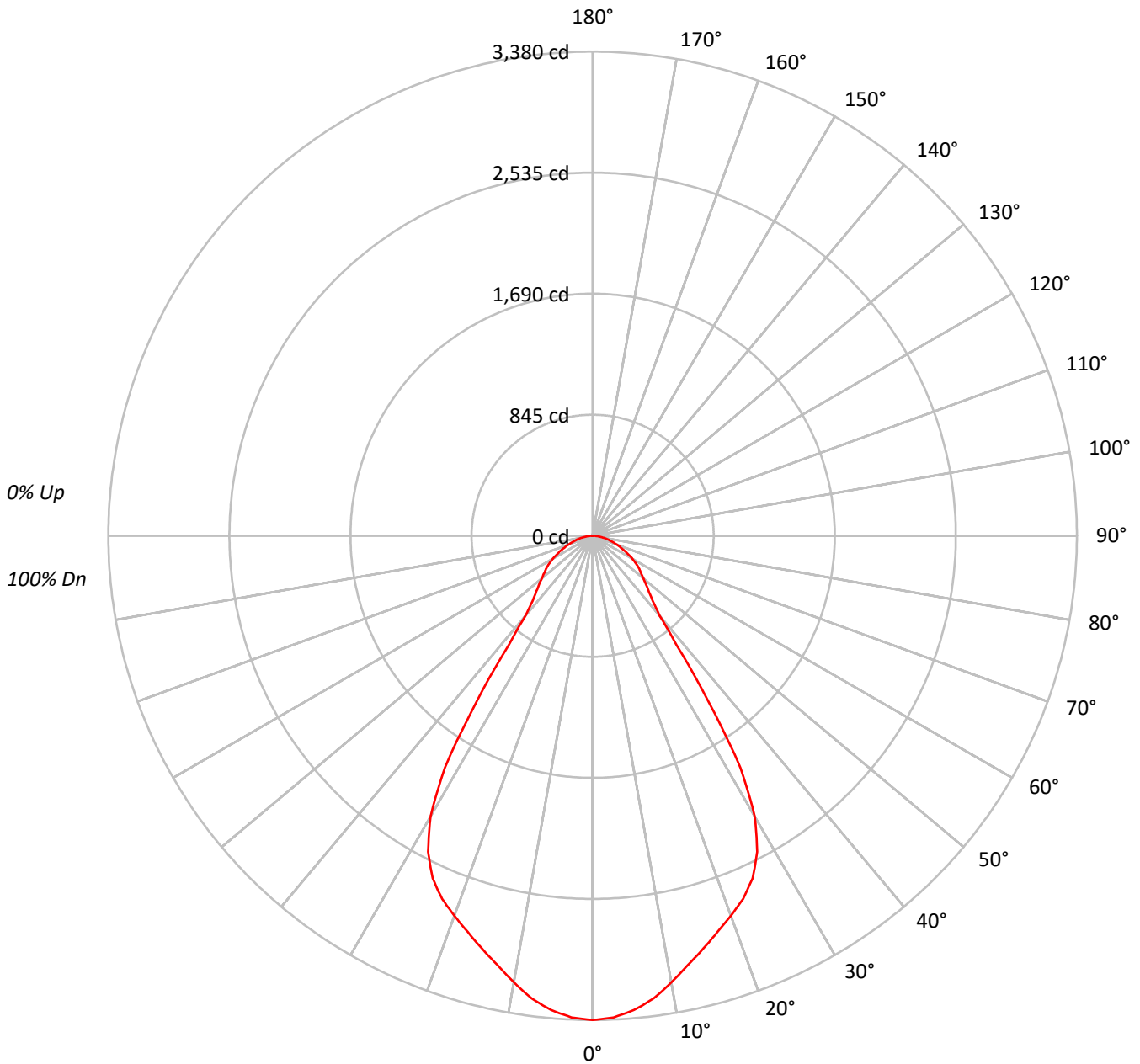
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89			89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79			79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71			71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64			64
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			58
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53			53
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49			49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45			45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	104236
5°	102879
10°	99112
15°	95236
20°	92605
25°	89817
30°	80596
35°	52834
40°	29212
45°	24356
50°	22207
55°	21187
60°	19704
65°	17869
70°	16157
75°	14595
80°	13247
85°	12666



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.3	7.0
10°-20°	841.6	19.0
20°-30°	1197.8	27.0
30°-40°	886.5	20.0
40°-50°	439.1	9.9
50°-60°	350.4	7.9
60°-70°	243.3	5.5
70°-80°	131.1	3.0
80°-90°	38.6	0.9
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°	2351.7	53.0
0°-40°	3238.2	72.9
0°-60°	4027.7	90.7
0°-90°	4440.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4440.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3380	
5°	3324	312
15°	2983	842
25°	2640	1198
35°	1404	887
45°	558	439
55°	394	350
65°	245	243
75°	122	131
85°	36	39
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3380.3
2.5°	3365.4
5°	3323.6
7.5°	3257.9
10°	3165.3
12.5°	3069.7
15°	2983.2
17.5°	2899.6
20°	2822.0
22.5°	2744.3
25°	2639.8
27.5°	2487.5
30°	2263.5
32.5°	1920.1
35°	1403.5
37.5°	958.5
40°	725.7
42.5°	621.1
45°	558.5
47.5°	507.7
50°	462.9
52.5°	424.0
55°	394.1
57.5°	358.3
60°	319.5
62.5°	280.7
65°	244.9
67.5°	209.1
70°	179.2
72.5°	149.3
75°	122.5
77.5°	98.5
80°	74.6
82.5°	53.8
85°	35.8
87.5°	14.9
90°	0.0



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— 0°-180°







(END OF REPORT)