

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: P584547

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584547
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-HM82555835-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4761.9 lumens
Efficiency: N/A
Efficacy: 116.1 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

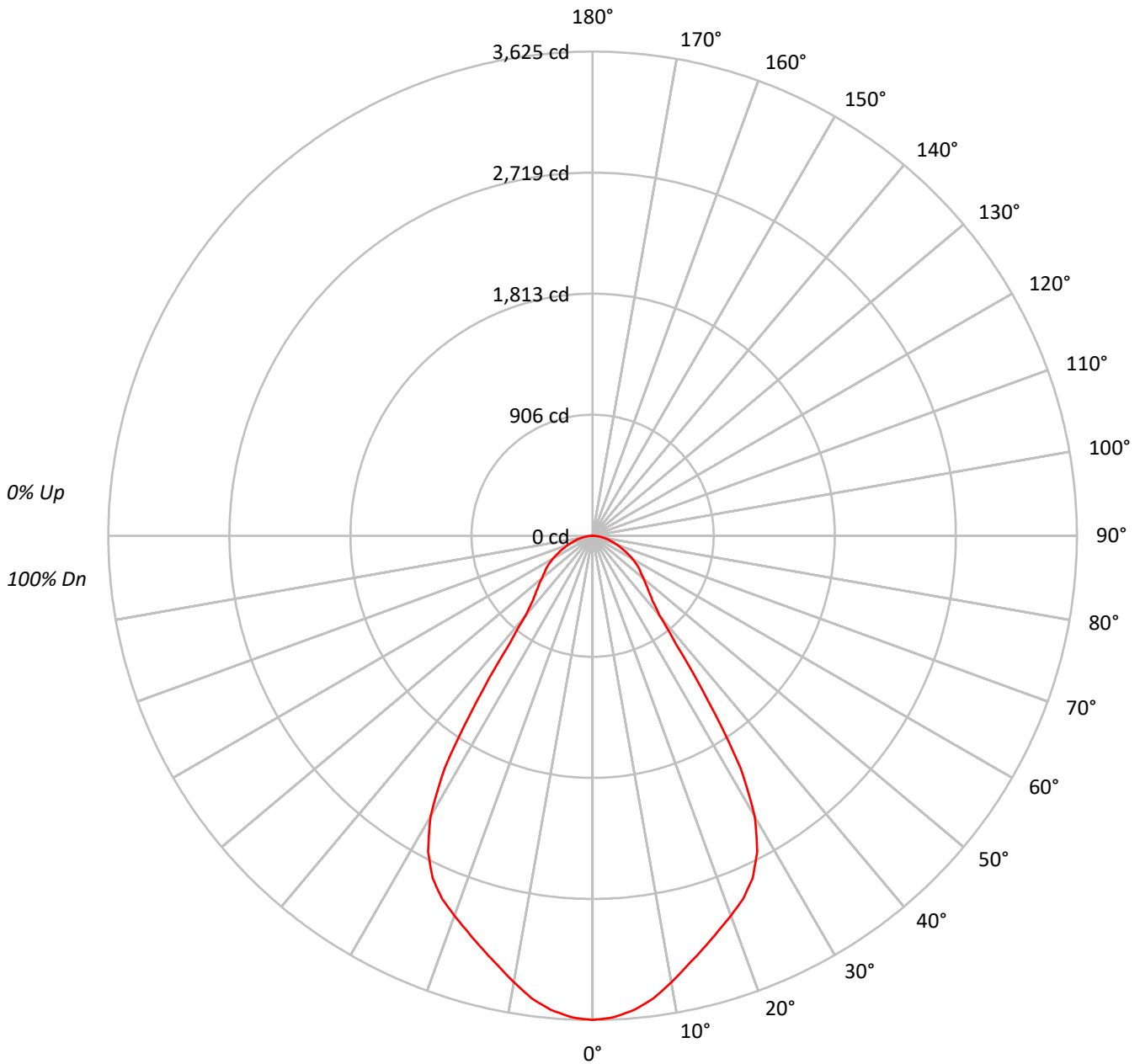
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	111772
5°	110317
10°	106279
15°	102125
20°	99302
25°	96312
30°	86425
35°	56655
40°	31322
45°	26113
50°	23809
55°	22725
60°	21129
65°	19153
70°	17329
75°	15643
80°	14224
85°	13586



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.9	7.0
10°-20°	902.5	19.0
20°-30°	1284.4	27.0
30°-40°	950.6	20.0
40°-50°	470.8	9.9
50°-60°	375.8	7.9
60°-70°	260.9	5.5
70°-80°	140.6	3.0
80°-90°	41.4	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°	2521.8	53.0
0°-40°	3472.4	72.9
0°-60°	4319.0	90.7
0°-90°	4761.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4761.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3625	
5°	3564	335
15°	3199	903
25°	2831	1284
35°	1505	951
45°	599	471
55°	423	376
65°	262	261
75°	131	141
85°	38	41
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3624.7
2.5°	3608.8
5°	3563.9
7.5°	3493.5
10°	3394.2
12.5°	3291.8
15°	3199.0
17.5°	3109.2
20°	3026.1
22.5°	2942.8
25°	2830.7
27.5°	2667.4
30°	2427.2
32.5°	2058.9
35°	1505.0
37.5°	1027.9
40°	778.1
42.5°	666.0
45°	598.8
47.5°	544.3
50°	496.3
52.5°	454.7
55°	422.7
57.5°	384.3
60°	342.6
62.5°	301.0
65°	262.5
67.5°	224.2
70°	192.2
72.5°	160.1
75°	131.3
77.5°	105.7
80°	80.1
82.5°	57.6
85°	38.4
87.5°	16.1
90°	0.0



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— 0°-180°







(END OF REPORT)