

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: P580608

Luminaire Tested: **HC440D010-HM43040840-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580608
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC440D010-HM43040840-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4033.1 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

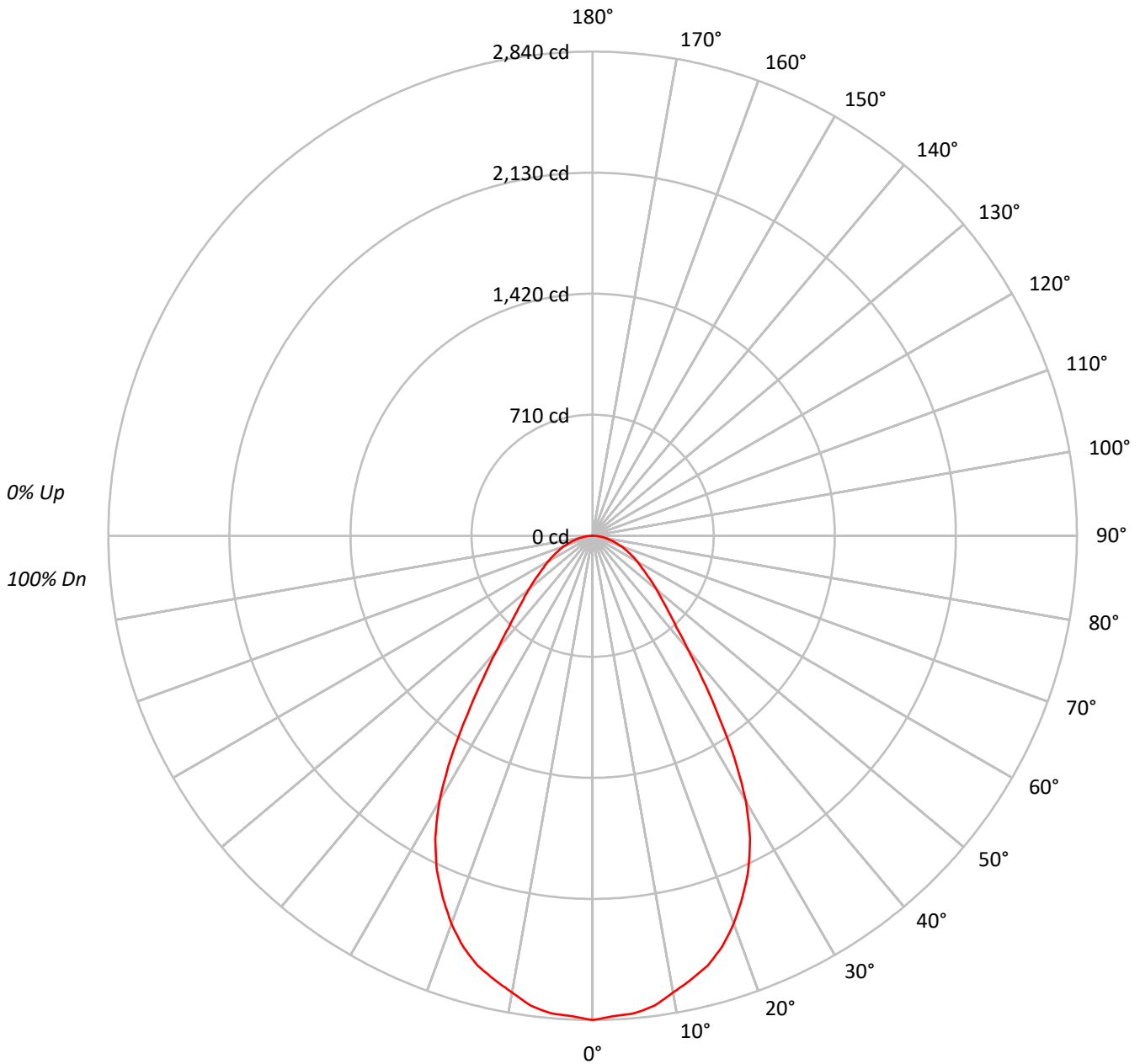
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70			
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63			
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40			
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	350314
5°	348123
10°	340713
15°	333174
20°	317771
25°	294160
30°	255856
35°	193221
40°	140036
45°	109424
50°	93566
55°	80944
60°	74550
65°	68237
70°	63761
75°	58428
80°	54695
85°	52505



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.5	6.6
10°-20°	730.8	18.1
20°-30°	982.8	24.4
30°-40°	808.1	20.0
40°-50°	496.2	12.3
50°-60°	343.4	8.5
60°-70°	234.1	5.8
70°-80°	130.5	3.2
80°-90°	41.6	1.0
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°	1979.1	49.1
0°-40°	2787.2	69.1
0°-60°	3626.9	89.9
0°-90°	4033.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4033.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2840	
5°	2812	266
15°	2609	731
25°	2161	983
35°	1283	808
45°	627	496
55°	376	343
65°	234	234
75°	123	130
85°	37	42
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2840.1
2.5°	2820.1
5°	2811.6
7.5°	2780.2
10°	2720.3
12.5°	2666.1
15°	2609.1
17.5°	2526.4
20°	2420.9
22.5°	2295.5
25°	2161.4
27.5°	1998.9
30°	1796.4
32.5°	1548.3
35°	1283.2
37.5°	1055.1
40°	869.7
42.5°	727.1
45°	627.3
47.5°	550.3
50°	487.6
52.5°	430.6
55°	376.4
57.5°	336.5
60°	302.2
62.5°	268.0
65°	233.8
67.5°	205.3
70°	176.8
72.5°	148.3
75°	122.6
77.5°	97.0
80°	77.0
82.5°	57.1
85°	37.1
87.5°	20.0
90°	0.0



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— 0°-180°







(END OF REPORT)