

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: P579785

Luminaire Tested: **HC410D010-HM40525930-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579785
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: HC410D010-HM40525930-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 880.2 lumens
Efficiency: N/A
Efficacy: 88.9 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

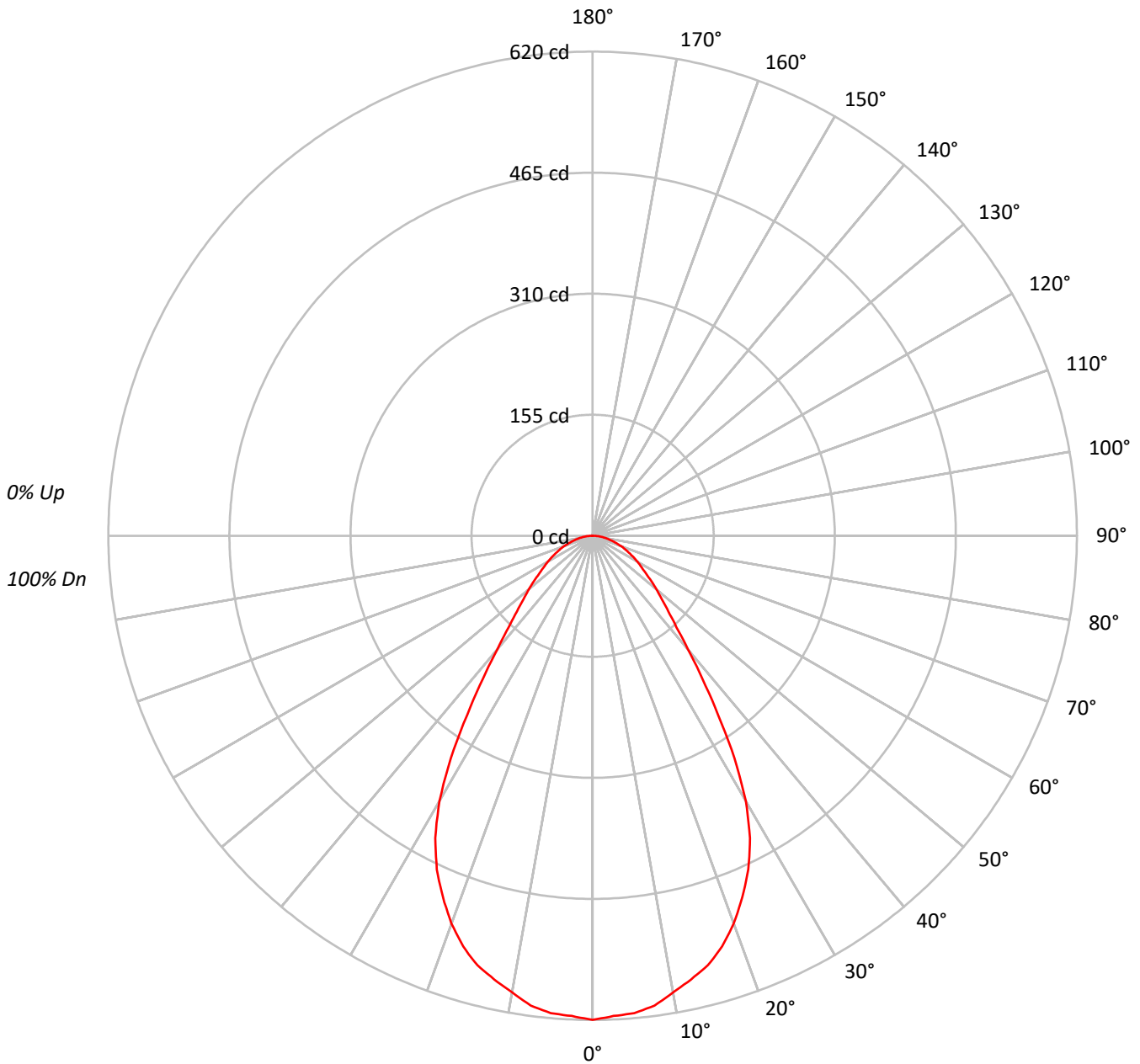
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	76462
5°	75974
10°	74360
15°	72723
20°	69359
25°	64197
30°	55831
35°	42177
40°	30561
45°	23880
50°	20417
55°	17677
60°	16282
65°	14885
70°	13921
75°	12724
80°	11933
85°	11463



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.0	6.6
10°-20°	159.5	18.1
20°-30°	214.5	24.4
30°-40°	176.4	20.0
40°-50°	108.3	12.3
50°-60°	75.0	8.5
60°-70°	51.1	5.8
70°-80°	28.5	3.2
80°-90°	9.0	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°	431.9	49.1
0°-40°	608.3	69.1
0°-60°	791.6	89.9
0°-90°	880.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	880.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	620	
5°	614	58
15°	570	160
25°	472	214
35°	280	176
45°	137	108
55°	82	75
65°	51	51
75°	27	28
85°	8	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	619.9
2.5°	615.5
5°	613.6
7.5°	606.8
10°	593.7
12.5°	581.9
15°	569.5
17.5°	551.4
20°	528.4
22.5°	500.9
25°	471.7
27.5°	436.3
30°	392.0
32.5°	338.0
35°	280.1
37.5°	230.2
40°	189.8
42.5°	158.8
45°	136.9
47.5°	120.1
50°	106.4
52.5°	94.0
55°	82.2
57.5°	73.4
60°	66.0
62.5°	58.5
65°	51.0
67.5°	44.8
70°	38.6
72.5°	32.3
75°	26.7
77.5°	21.2
80°	16.8
82.5°	12.4
85°	8.1
87.5°	4.3
90°	0.0



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— 0°-180°







(END OF REPORT)