

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: P579893

Luminaire Tested: **HC415D010-HM40525840-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579893
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: HC415D010-HM40525840-41PSMDW
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: 1450.5 lumens
Efficiency: N/A
Efficacy: 103.6 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

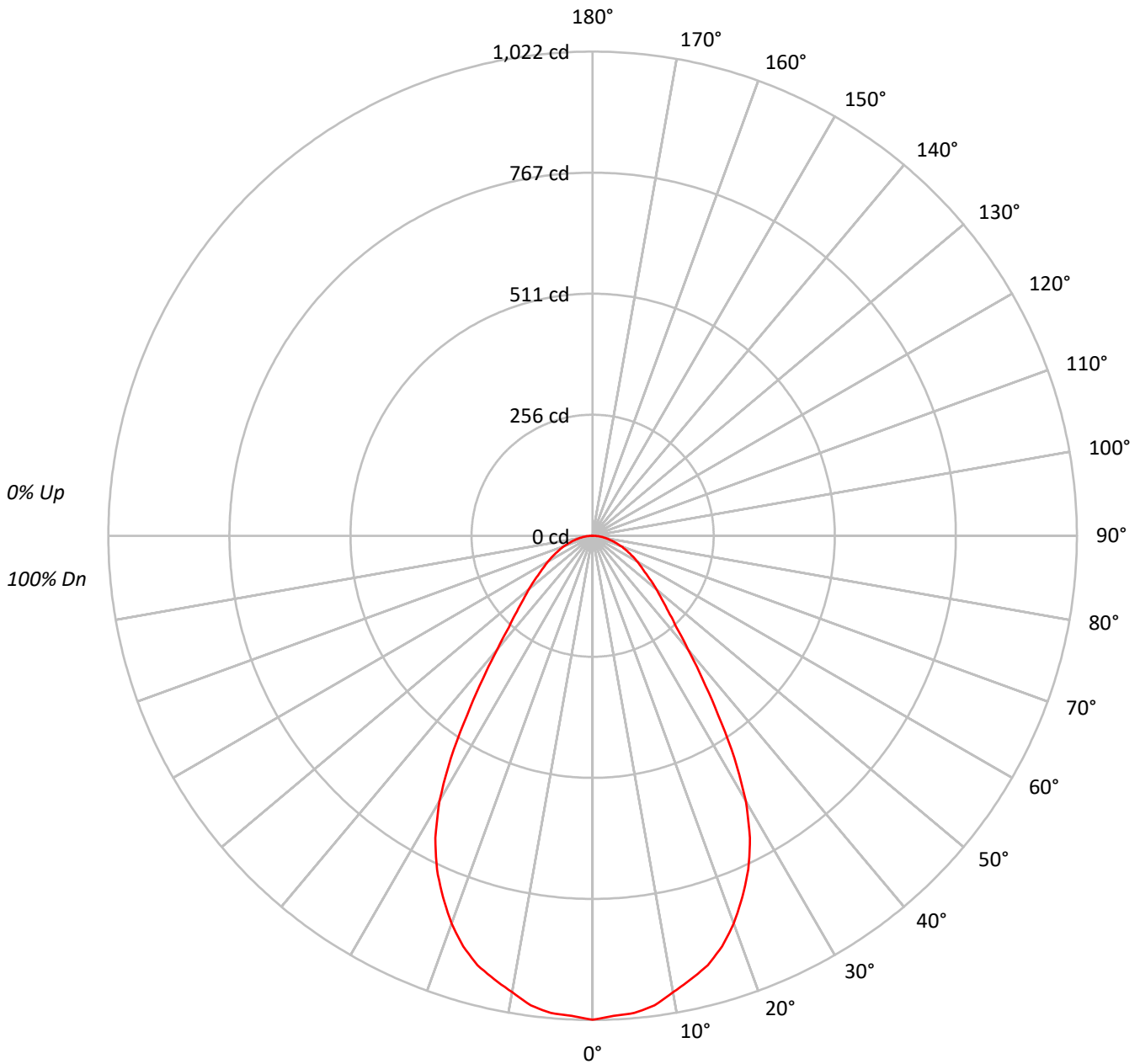
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	125998
5°	125204
10°	122543
15°	119831
20°	114290
25°	105802
30°	92036
35°	69491
40°	50366
45°	39353
50°	33639
55°	29117
60°	26815
65°	24545
70°	22937
75°	21017
80°	19676
85°	18823



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.5	6.6
10°-20°	262.9	18.1
20°-30°	353.5	24.4
30°-40°	290.6	20.0
40°-50°	178.5	12.3
50°-60°	123.5	8.5
60°-70°	84.2	5.8
70°-80°	46.9	3.2
80°-90°	14.9	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°	711.8	49.1
0°-40°	1002.5	69.1
0°-60°	1304.5	89.9
0°-90°	1450.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1450.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1022	
5°	1011	96
15°	938	263
25°	777	353
35°	462	291
45°	226	178
55°	135	124
65°	84	84
75°	44	47
85°	13	15
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1021.5
2.5°	1014.3
5°	1011.2
7.5°	1000.0
10°	978.4
12.5°	958.9
15°	938.4
17.5°	908.7
20°	870.7
22.5°	825.6
25°	777.4
27.5°	718.9
30°	646.2
32.5°	556.9
35°	461.5
37.5°	379.4
40°	312.8
42.5°	261.5
45°	225.6
47.5°	198.0
50°	175.3
52.5°	154.9
55°	135.4
57.5°	121.0
60°	108.7
62.5°	96.4
65°	84.1
67.5°	73.8
70°	63.6
72.5°	53.3
75°	44.1
77.5°	34.9
80°	27.7
82.5°	20.5
85°	13.3
87.5°	7.2
90°	0.0



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— 0°-180°







(END OF REPORT)