

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: P579947

Luminaire Tested: **HC415D010-HM40525935-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P579947
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-HM40525935-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1260.8 lumens
Efficiency: N/A
Efficacy: 90.1 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

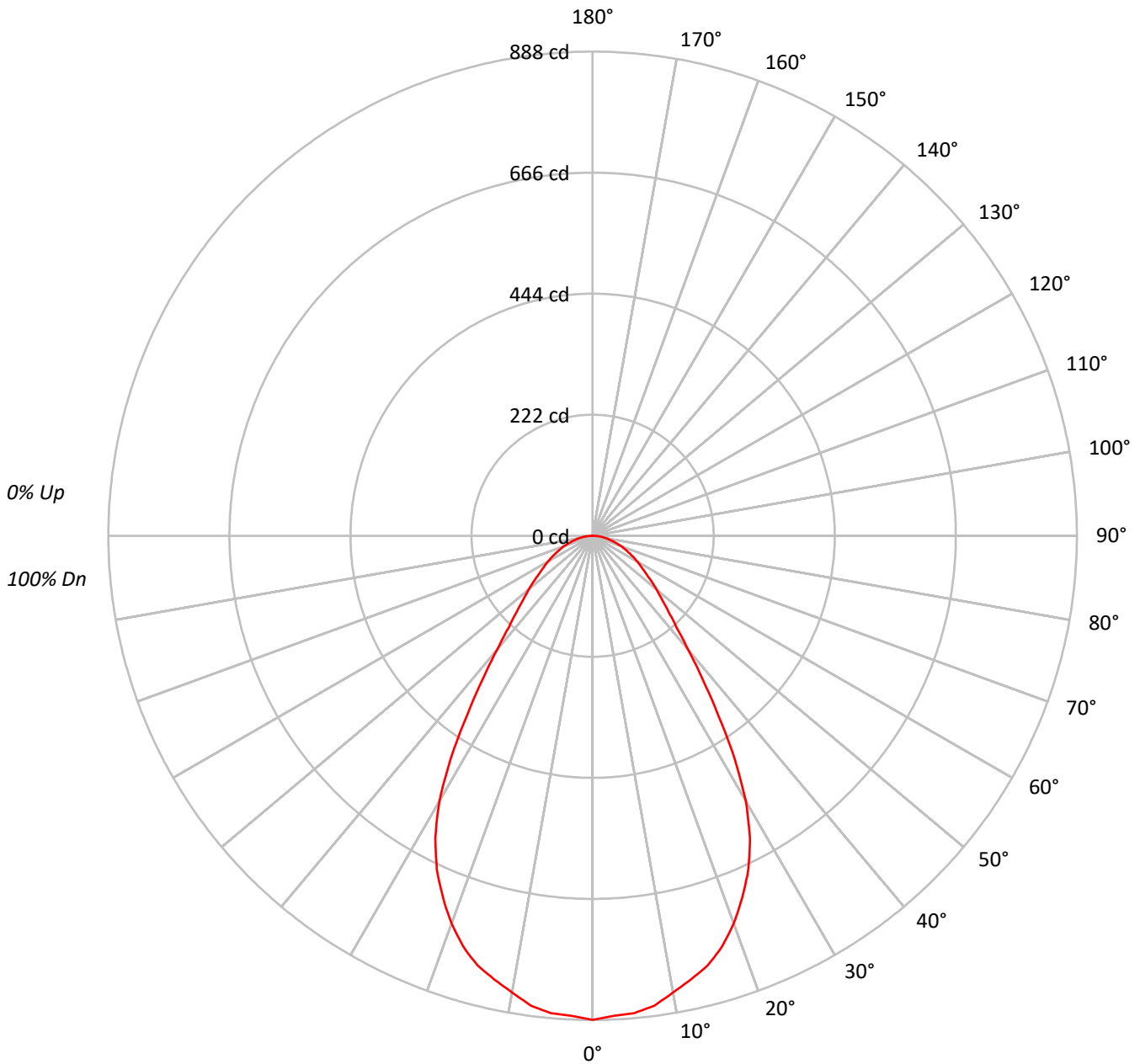
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	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°	109506
5°	108810
10°	106511
15°	104150
20°	99326
25°	91947
30°	79987
35°	60397
40°	43780
45°	34207
50°	29244
55°	25311
60°	23312
65°	21335
70°	19943
75°	18253
80°	17119
85°	16417



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.0	6.6
10°-20°	228.5	18.1
20°-30°	307.2	24.4
30°-40°	252.6	20.0
40°-50°	155.1	12.3
50°-60°	107.4	8.5
60°-70°	73.2	5.8
70°-80°	40.8	3.2
80°-90°	13.0	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°	618.7	49.1
0°-40°	871.3	69.1
0°-60°	1133.8	89.9
0°-90°	1260.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1260.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	888	
5°	879	83
15°	816	228
25°	676	307
35°	401	253
45°	196	155
55°	118	107
65°	73	73
75°	38	41
85°	12	13
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	887.8
2.5°	881.5
5°	878.8
7.5°	869.0
10°	850.4
12.5°	833.4
15°	815.6
17.5°	789.8
20°	756.7
22.5°	717.6
25°	675.6
27.5°	624.8
30°	561.6
32.5°	484.0
35°	401.1
37.5°	329.7
40°	271.9
42.5°	227.3
45°	196.1
47.5°	172.0
50°	152.4
52.5°	134.6
55°	117.7
57.5°	105.2
60°	94.5
62.5°	83.8
65°	73.1
67.5°	64.1
70°	55.3
72.5°	46.4
75°	38.3
77.5°	30.4
80°	24.1
82.5°	17.9
85°	11.6
87.5°	6.3
90°	0.0



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— 0°-180°







(END OF REPORT)