

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: METALUX

Report Number: 14001

Luminaire Tested: **VT3-232DR-UNV-EB81-WL-M4-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 14001
Test Lab: BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VT3-232DR-UNV-EB81-WL-M4-U
Description: MOLDED ACRYLIC HOUSING, FORMED SPECULAR REFLECTOR,
WITH CLEAR LINEAR PRISMATIC AND PATTERNED LENS
Light Source: -
TWO F32T8/TL841/ALTO - 2850 LUMENS EA
Ballast/Driver: -

Summary

Lumens per Lamp: 2950 (2 lamps)
Luminaire Lumens: 5196.5 lumens
Efficiency: 88.1%
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.35 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.54' x L: 4.15' x H: 0.16')
CIE Type: Direct

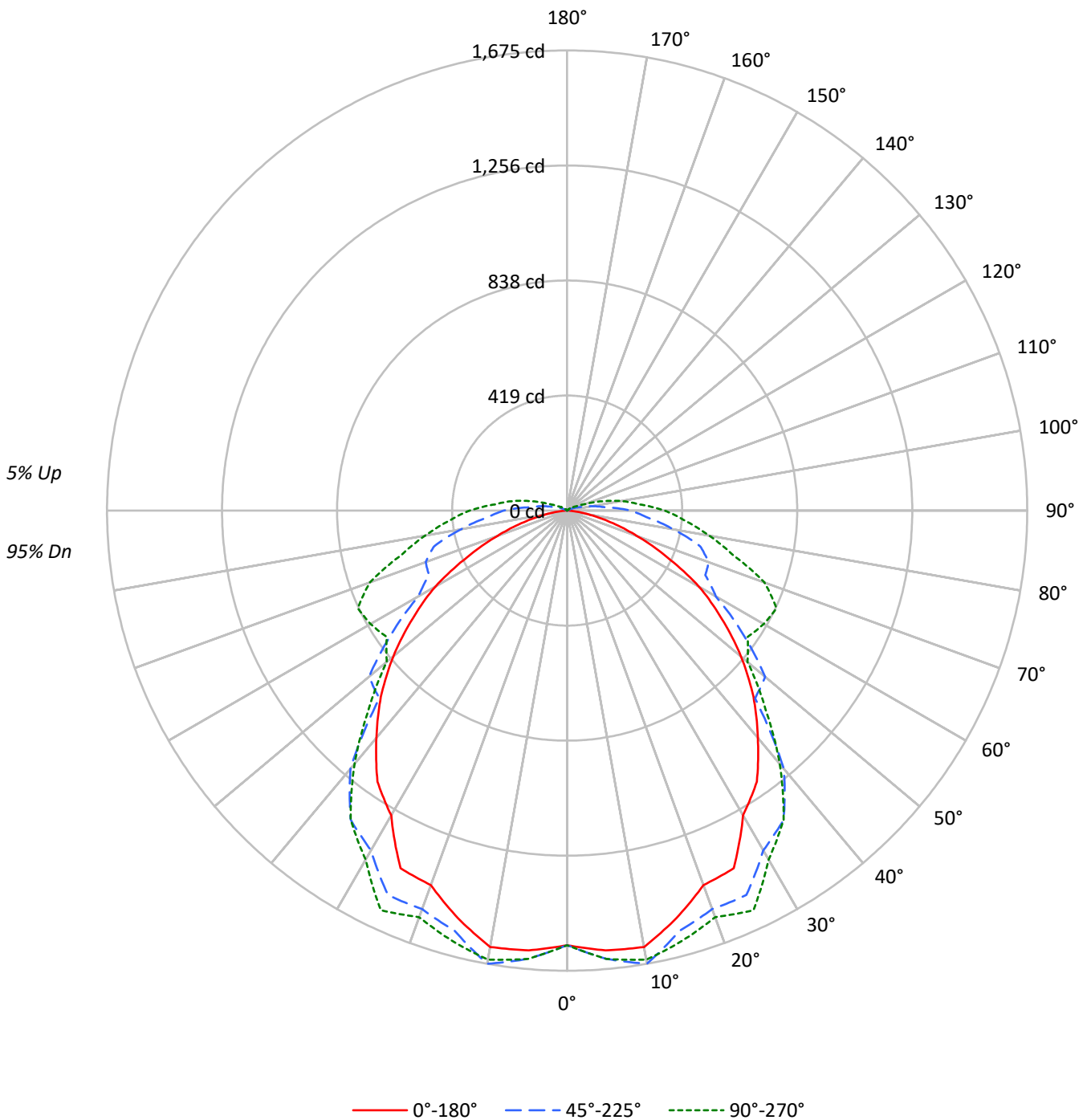
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	104	104	104	104	101	101	101	101	96	96	96	91	91	91	86	86	86	84
1	93	88	84	80	90	86	82	78	81	78	75	77	75	72	73	71	69	67
2	84	76	70	64	82	74	68	63	71	66	61	67	63	59	64	60	57	55
3	77	67	59	53	74	65	58	52	62	56	51	59	54	50	56	52	48	46
4	70	59	51	45	68	58	50	44	55	49	43	52	47	42	50	45	41	39
5	65	53	45	39	62	52	44	38	49	43	38	47	41	37	45	40	36	34
6	60	48	40	34	58	47	39	34	45	38	33	43	37	32	41	36	32	30
7	55	43	35	30	54	42	35	30	41	34	29	39	33	29	37	32	28	26
8	52	40	32	27	50	39	32	26	37	31	26	36	30	26	34	29	25	24
9	48	36	29	24	47	36	29	24	34	28	24	33	27	23	32	27	23	21
10	45	33	26	22	44	33	26	22	32	26	21	31	25	21	30	24	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7578	7578	7578
5°	7702	7721	7683
10°	7794	7829	7684
15°	7541	7394	7463
20°	7297	7262	7267
25°	7459	7370	7479
30°	6935	6972	6958
35°	6860	6920	6687
40°	6547	6431	6064
45°	6261	5325	5371
50°	5891	5503	4755
55°	5445	4896	4747
60°	4992	4281	5281
65°	4206	4212	5894
70°	3427	4702	5975
75°	2629	4988	5577
80°	1750	4703	5502
85°	576	4436	5535



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	155.7	3.0	2.6	0°	1582	1582	1582	1582	1582	
10°-20°	451.0	8.7	7.6	5°	1607	1607	1638	1646	1638	153
20°-30°	694.2	13.4	11.8	15°	1536	1598	1583	1629	1621	433
30°-40°	825.2	15.9	14.0	25°	1436	1490	1544	1590	1605	647
40°-50°	780.3	15.0	13.2	35°	1204	1297	1374	1389	1374	747
50°-60°	693.4	13.3	11.8	45°	959	983	967	975	1021	738
60°-70°	600.1	11.5	10.2	55°	687	779	779	756	802	616
70°-80°	463.0	8.9	7.8	65°	401	478	555	779	841	402
80°-90°	293.4	5.6	5.0	75°	162	262	501	594	625	177
90°-100°	153.5	3.0	2.6	85°	15	131	293	401	432	29
100°-110°	62.8	1.2	1.1	90°	7	84	231	324	355	4
110°-120°	17.0	0.3	0.3	95°	0	30	138	231	262	1
120°-130°	6.4	0.1	0.1	105°	0	7	46	108	131	0
130°-140°	0.5	0.0	0.0	115°	0	0	7	30	38	0
140°-150°	0.0	0.0	0.0	125°	0	0	0	23	23	0
150°-160°	0.0	0.0	0.0	135°	0	0	0	0	0	0
160°-170°	0.0	0.0	0.0	145°	0	0	0	0	0	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	0
0°-30°	1300.8	25.0	22.0	165°	0	0	0	0	0	0
0°-40°	2126.0	40.9	36.0	175°	0	0	0	0	0	0
0°-60°	3599.7	69.3	61.0	180°	0	0	0	0	0	0
0°-90°	4956.2	95.4	84.0							
90°-120°	233.3	4.5	4.0							
90°-150°	240.3	4.6	4.1							
90°-180°	240.0	4.6	4.1							
0°-180°	5196.5	100.0	88.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1582	1582	1582	1582	1582
5°	1607	1607	1638	1646	1638
10°	1613	1636	1675	1660	1660
15°	1536	1598	1583	1629	1621
20°	1451	1521	1544	1567	1575
25°	1436	1490	1544	1590	1605
30°	1281	1358	1428	1451	1467
35°	1204	1297	1374	1389	1374
40°	1080	1173	1227	1219	1204
45°	959	983	967	975	1021
50°	826	926	941	872	857
55°	687	779	779	756	802
60°	555	640	625	741	826
65°	401	478	555	779	841
70°	270	347	548	710	764
75°	162	262	501	594	625
80°	77	208	393	486	525
85°	15	131	293	401	432
90°	7	84	231	324	355
95°	0	30	138	231	262
100°	0	15	92	162	200
105°	0	7	46	108	131
110°	0	0	30	61	69
115°	0	0	7	30	38
120°	0	0	0	23	23
125°	0	0	0	23	23
130°	0	0	0	7	7
135°	0	0	0	0	0
140°	0	0	0	0	0
145°	0	0	0	0	0
150°	0	0	0	0	0
155°	0	0	0	0	0
160°	0	0	0	0	0
165°	0	0	0	0	0
170°	0	0	0	0	0
175°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)