

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: 13879.0

Luminaire Tested: **VT3-332DR-UNV-EB81-M4-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 13879.0
Test Lab: BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VT3-332DR-UNV-EB81-M4-WL-U
Description: MOLDED ACRYLIC HOUSING, FORMED SPECULAR REFLECTOR,
WITH CLEAR LINEAR PRISMATIC AND PATTERNED LENS

Light Source: -
THREE 32 WATT F32T8/835/RS - 2950 LUMENS
Ballast/Driver: -

Summary

Lumens per Lamp: 2950 (3 lamps)
Luminaire Lumens: 6813.7 lumens
Efficiency: 77.0%
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.4 / 1.48
Luminous Opening: Rectangular w/ Sides (W: 0.54' x L: 4.15' x H: 0.16')
CIE Type: Direct

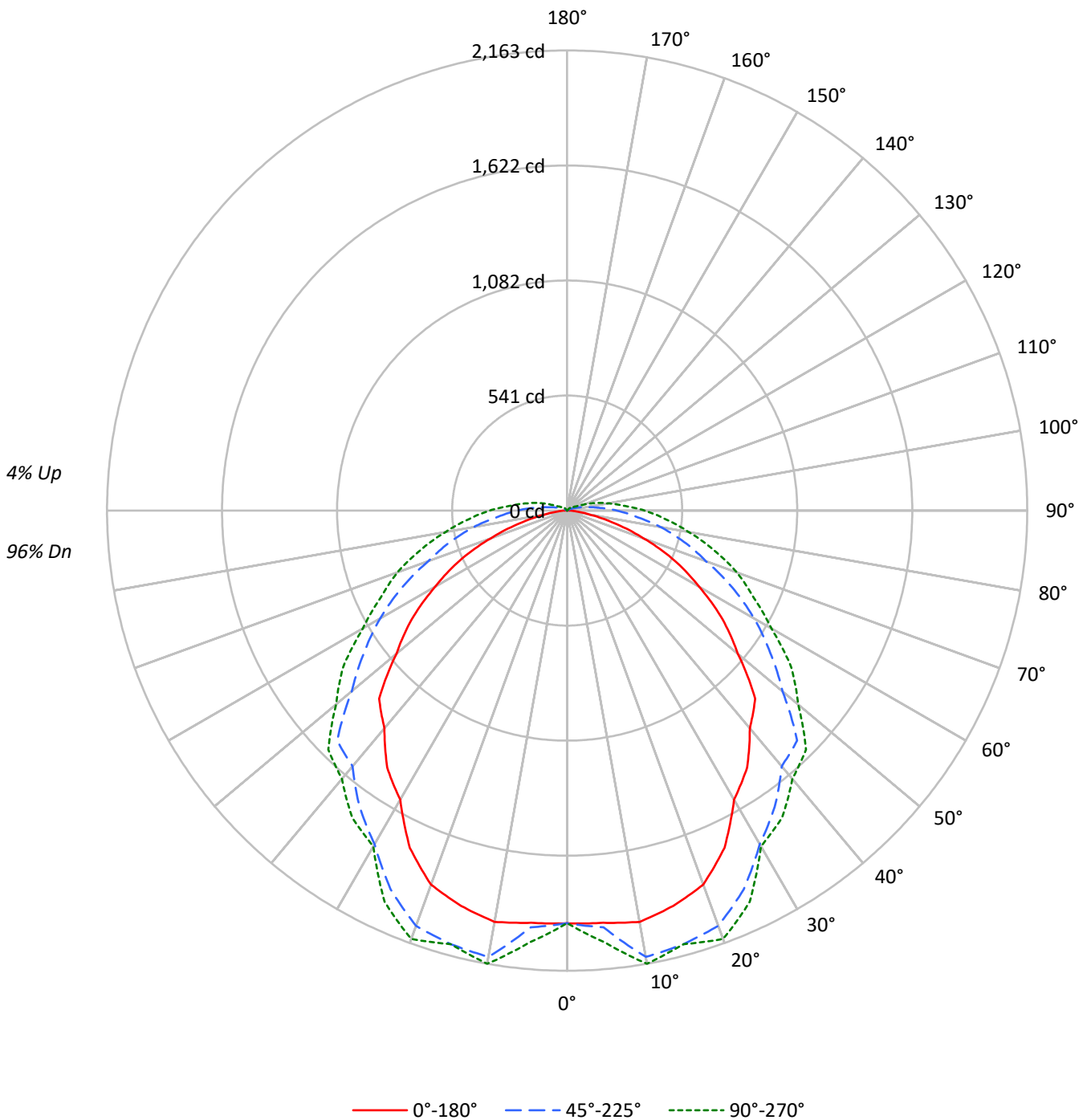
Input Watts (W): 78
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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	50	30	10	0														
RCR																																						
0	91	91	91	91	89	89	89	89	84	84	84	80	80	80	76	76	76	74						74														
1	82	78	74	71	79	76	72	69	72	69	67	68	66	64	65	63	62	60						60														
2	74	67	62	57	72	66	60	56	62	58	54	59	56	53	57	54	51	49						49														
3	67	59	52	47	65	57	51	46	55	49	45	52	48	44	50	46	43	41						41														
4	62	52	45	40	60	51	44	39	48	43	38	46	41	37	44	40	37	35						35														
5	57	46	39	34	55	45	39	34	43	37	33	41	36	32	40	35	32	30						30														
6	52	42	35	29	51	41	34	29	39	33	29	37	32	28	36	31	28	26						26														
7	48	38	31	26	47	37	30	26	35	30	25	34	29	25	33	28	25	23						23														
8	45	34	28	23	44	34	27	23	32	27	23	31	26	22	30	25	22	20						20														
9	42	32	25	21	41	31	25	21	30	24	20	29	24	20	28	23	20	18						18														
10	39	29	23	19	38	29	23	19	28	22	18	27	22	18	26	21	18	17						17														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9293	9293	9293
5°	9322	9267	9559
10°	9485	9956	10013
15°	9446	9856	9714
20°	9409	9769	9888
25°	9085	9374	9459
30°	8494	8842	8642
35°	8404	8566	8575
40°	8098	8223	8295
45°	8161	8420	8353
50°	7475	7731	7868
55°	7077	7329	7617
60°	6449	6959	7090
65°	5863	6504	6777
70°	4874	5955	6640
75°	3716	5655	6353
80°	2387	5337	6088
85°	1576	4890	5957



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	192.3	2.8	2.2	0°	1940	1940	1940	1940	1940	
10°-20°	587.0	8.6	6.6	5°	1945	1947	1966	2014	2038	186
20°-30°	890.7	13.1	10.1	15°	1924	2029	2110	2115	2110	543
30°-40°	1043.9	15.3	11.8	25°	1749	1918	1964	2022	2030	800
40°-50°	1125.8	16.5	12.7	35°	1475	1628	1701	1749	1762	917
50°-60°	1016.4	14.9	11.5	45°	1250	1443	1529	1591	1588	943
60°-70°	813.1	11.9	9.2	55°	893	1045	1166	1263	1287	794
70°-80°	560.2	8.2	6.3	65°	559	726	857	938	967	549
80°-90°	327.2	4.8	3.7	75°	229	388	568	678	712	250
90°-100°	160.0	2.3	1.8	85°	41	172	323	427	465	49
100°-110°	66.4	1.0	0.8	90°	12	98	234	329	364	10
110°-120°	21.1	0.3	0.2	95°	7	43	148	234	264	4
120°-130°	7.5	0.1	0.1	105°	0	9	55	113	138	0
130°-140°	2.1	0.0	0.0	115°	0	0	19	38	47	0
140°-150°	0.0	0.0	0.0	125°	0	0	0	20	25	0
150°-160°	0.0	0.0	0.0	135°	0	0	0	0	17	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°	1670.0	24.5	18.9	165°	0	0	0	0	0	0
0°-40°	2713.9	39.8	30.7	175°	0	0	0	0	0	0
0°-60°	4856.1	71.3	54.9	180°	0	0	0	0	0	0
0°-90°	6556.6	96.2	74.1							
90°-120°	247.6	3.6	2.8							
90°-150°	257.1	3.8	2.9							
90°-180°	257.0	3.8	2.9							
0°-180°	6813.7	100.0	77.0							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1940	1940	1940	1940	1940
5°	1945	1947	1966	2014	2038
10°	1963	1990	2130	2162	2163
15°	1924	2029	2110	2115	2110
20°	1871	2054	2077	2123	2143
25°	1749	1918	1964	2022	2030
30°	1569	1735	1811	1813	1822
35°	1475	1628	1701	1749	1762
40°	1336	1502	1569	1631	1647
45°	1250	1443	1529	1591	1588
50°	1048	1220	1322	1372	1418
55°	893	1045	1166	1263	1287
60°	717	873	1016	1088	1109
65°	559	726	857	938	967
70°	384	551	694	812	849
75°	229	388	568	678	712
80°	105	261	446	552	581
85°	41	172	323	427	465
90°	12	98	234	329	364
95°	7	43	148	234	264
100°	0	19	92	167	194
105°	0	9	55	113	138
110°	0	0	33	62	79
115°	0	0	19	38	47
120°	0	0	0	27	33
125°	0	0	0	20	25
130°	0	0	0	15	19
135°	0	0	0	0	17
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)