

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P233284

Luminaire Tested: **4VRVT3-LD5-4-G-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233284
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1709-268-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4VRVT3-LD5-4-G-UNV-L840-CD1-U
Description: 4FT VRVT3 GENERAL APPLICATION, 4000LM
Light Source: (196) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4115.9 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.26 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 1.04')
CIE Type: Direct

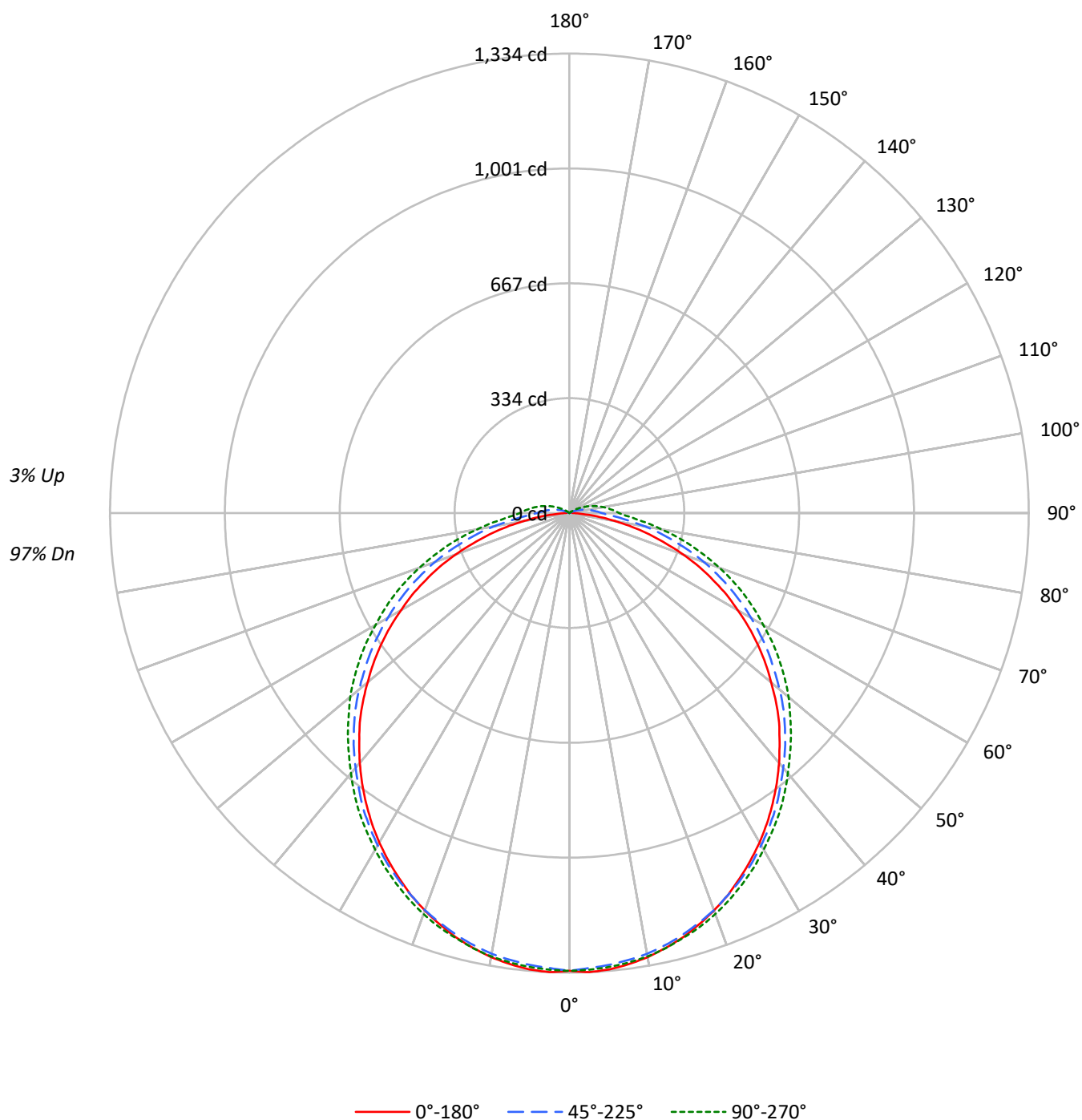
Input Watts (W): 32.24
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P233284

CATALOG NUMBER: 4VRVT3-LD5-4-G-UNV-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P233284

CATALOG NUMBER: 4VRVT3-LD5-4-G-UNV-L840-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99
1	107	102	97	93	104	99	95	91	94	91	88	90	87	84	86	83	81
2	97	88	81	75	94	86	79	74	82	76	72	78	73	69	75	71	67
3	88	77	69	62	85	75	67	61	72	65	60	69	63	58	66	61	57
4	81	68	59	52	78	67	58	52	64	56	51	61	55	49	58	53	48
5	74	61	52	45	72	59	51	44	57	49	44	55	48	43	52	47	42
6	68	55	46	39	66	54	45	39	51	44	38	49	43	37	47	42	37
7	63	49	41	34	61	49	40	34	47	39	34	45	38	33	43	37	33
8	59	45	36	31	57	44	36	30	43	35	30	41	34	30	40	34	29
9	55	41	33	27	53	41	33	27	39	32	27	38	31	27	37	31	26
10	52	38	30	25	50	38	30	25	36	29	24	35	29	24	34	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8583	8583	8583
5°	8430	7293	7038
10°	8208	6338	5949
15°	7969	5567	5113
20°	7709	4930	4459
25°	7435	4383	3909
30°	7157	3906	3443
35°	6862	3481	3047
40°	6552	3087	2686
45°	6239	2738	2375
50°	5866	2407	2098
55°	5491	2096	1833
60°	5029	1796	1575
65°	4520	1512	1345
70°	3864	1235	1111
75°	3037	946	887
80°	2027	681	664
85°	913	448	479



TEST NUMBER: P233284

CATALOG NUMBER: 4VRVT3-LD5-4-G-UNV-L840-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.7	3.1
10°-20°	359.4	8.7
20°-30°	543.0	13.2
30°-40°	654.2	15.9
40°-50°	683.5	16.6
50°-60°	631.4	15.3
60°-70°	506.2	12.3
70°-80°	327.9	8.0
80°-90°	151.5	3.7
90°-100°	74.7	1.8
100°-110°	39.9	1.0
110°-120°	15.5	0.4
120°-130°	2.9	0.1
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°	1028.2	25.0
0°-40°	1682.4	40.9
0°-60°	2997.3	72.8
0°-90°	3982.9	96.8
90°-120°	130.1	3.2
90°-150°	133.0	3.2
90°-180°	133.0	3.2
0°-180°	4115.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1329	1329	1329	1329	1329	
5°	1330	1326	1317	1325	1323	126
15°	1275	1274	1268	1278	1277	359
25°	1170	1173	1175	1186	1188	539
35°	1029	1036	1045	1057	1063	644
45°	861	871	885	902	910	663
55°	669	684	705	731	744	597
65°	461	475	513	546	560	456
75°	240	270	314	352	367	254
85°	49	90	141	178	191	59
90°	11	45	94	131	144	7
95°	7	28	72	108	121	5
105°	3	6	36	66	78	4
115°	1	1	10	29	38	1
125°	1	0	0	5	9	1
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P233284

CATALOG NUMBER: 4VRVT3-LD5-4-G-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1329	1329	1329	1329	1329
2.5°	1334	1330	1322	1329	1327
5°	1330	1326	1317	1325	1323
7.5°	1321	1317	1309	1318	1316
10°	1309	1306	1299	1307	1307
12.5°	1293	1292	1285	1294	1294
15°	1275	1274	1268	1278	1277
17.5°	1252	1253	1248	1258	1260
20°	1228	1228	1227	1237	1239
22.5°	1201	1202	1201	1213	1215
25°	1170	1173	1175	1186	1188
27.5°	1138	1142	1146	1157	1160
30°	1104	1107	1114	1126	1128
32.5°	1068	1074	1080	1092	1096
35°	1029	1036	1045	1057	1063
37.5°	989	997	1005	1021	1026
40°	947	956	966	981	987
42.5°	903	915	927	943	948
45°	861	871	885	902	910
47.5°	814	827	843	861	869
50°	765	779	797	818	831
52.5°	718	732	750	776	788
55°	669	684	705	731	744
57.5°	618	634	657	686	699
60°	565	582	609	641	650
62.5°	515	531	562	593	606
65°	461	475	513	546	560
67.5°	408	424	464	500	512
70°	351	371	416	449	463
72.5°	294	318	365	401	414
75°	240	270	314	352	367
77.5°	188	219	269	304	319
80°	135	172	221	257	271
82.5°	90	128	177	215	230
85°	49	90	141	178	191
87.5°	23	63	111	148	163
90°	11	45	94	131	144
92.5°	9	35	83	119	133
95°	7	28	72	108	121
97.5°	6	20	63	97	111
100°	5	14	53	87	99
102.5°	4	9	44	77	89
105°	3	6	36	66	78
107.5°	3	3	29	56	68
110°	2	2	21	47	57



TEST NUMBER: P233284

CATALOG NUMBER: 4VRVT3-LD5-4-G-UNV-L840-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2	2	15	38	47
115°	1	1	10	29	38
117.5°	1	1	6	22	29
120°	1	1	3	15	22
122.5°	1	1	1	10	15
125°	1	0	0	5	9
127.5°	0	0	0	2	5
130°	0	0	0	0	1
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)