

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: P237780

Luminaire Tested: **4VRVT2-LD5-4-DR-UNV-L840-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237780
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-16)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4VRVT2-LD5-4-DR-UNV-L840-CD1-WL-U
Description: METALUX VRVT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/15% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION
4FT FIXTURE
Light Source: (112) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4141.0 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 4.17' x H: 0.17')
CIE Type: Direct

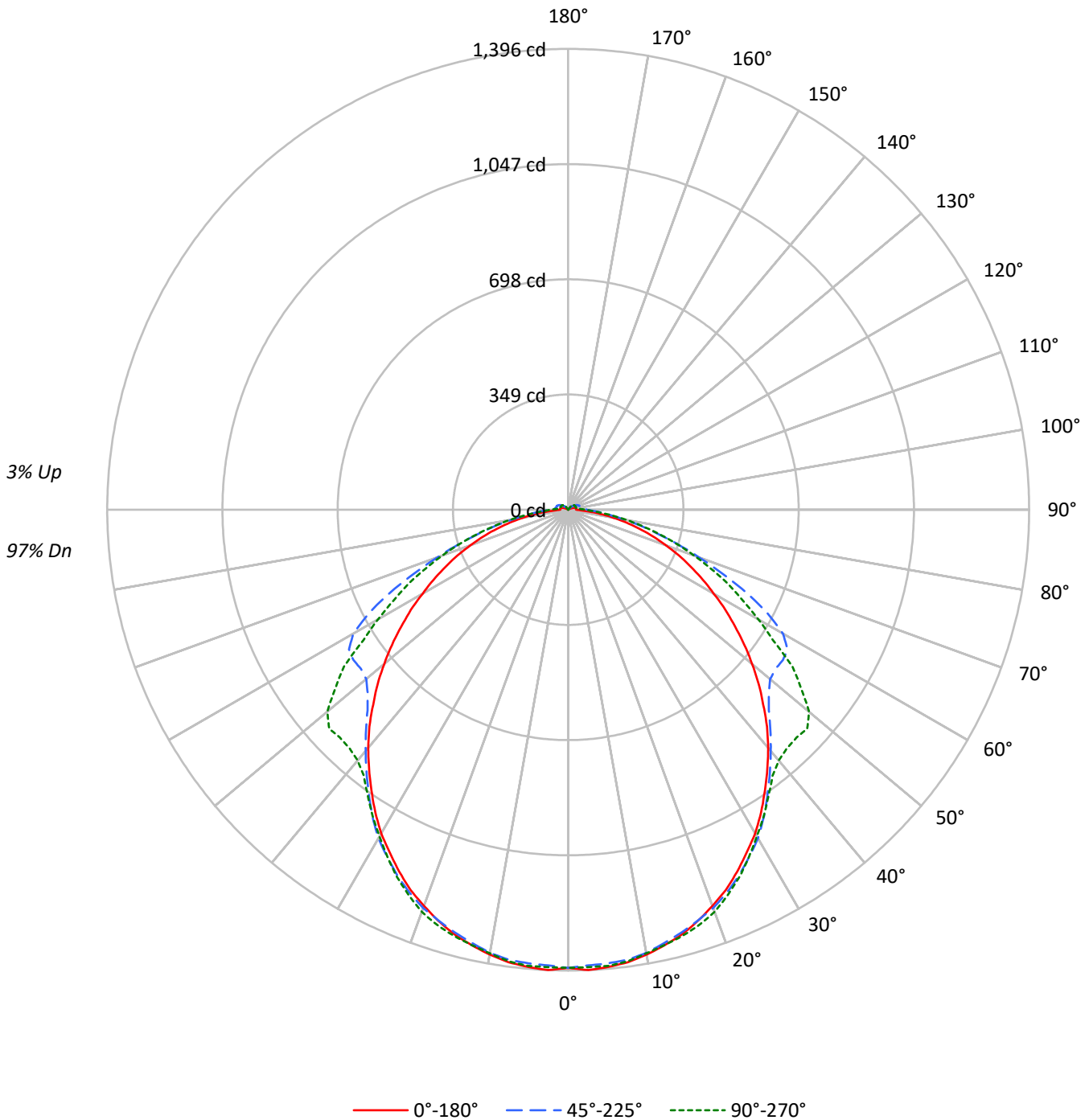
Input Watts (W): 29.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	108	103	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83	80
2	98	89	82	76	95	87	80	75	83	77	73	79	75	71	76	72	69	66
3	89	78	70	63	86	76	68	62	73	66	61	70	64	59	67	62	58	55
4	81	69	60	53	79	67	59	53	64	57	51	62	56	50	59	54	49	47
5	75	61	52	46	72	60	52	45	58	50	44	55	49	44	53	47	43	41
6	69	55	46	40	67	54	46	39	52	44	39	50	43	38	48	42	38	35
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	33	31
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	40	34	30	28
9	55	42	34	28	54	41	33	28	40	33	28	38	32	27	37	31	27	25
10	52	39	31	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7171	7171	7171
5°	7187	6992	6991
10°	7129	6834	6761
15°	7048	6623	6563
20°	6921	6439	6357
25°	6773	6207	6056
30°	6601	5950	5717
35°	6371	5603	5409
40°	6148	5269	5227
45°	5869	4967	5354
50°	5578	4882	5478
55°	5256	5193	5061
60°	4921	5326	4360
65°	4612	4648	3821
70°	4283	3686	3193
75°	3877	2816	2538
80°	3340	2046	1851
85°	2555	1459	1178



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.7	3.2
10°-20°	376.3	9.1
20°-30°	562.5	13.6
30°-40°	659.0	15.9
40°-50°	689.6	16.7
50°-60°	667.0	16.1
60°-70°	518.5	12.5
70°-80°	305.9	7.4
80°-90°	110.2	2.7
90°-100°	41.1	1.0
100°-110°	30.8	0.7
110°-120°	23.9	0.6
120°-130°	15.2	0.4
130°-140°	7.8	0.2
140°-150°	1.5	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1070.5	25.9
0°-40°	1729.5	41.8
0°-60°	3086.1	74.5
0°-90°	4020.7	97.1
90°-120°	95.8	2.3
90°-150°	120.3	2.9
90°-180°	120.0	2.9
0°-180°	4141.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1388	1388	1388	1388	1388	
5°	1391	1384	1379	1391	1387	132
15°	1332	1336	1326	1342	1336	375
25°	1210	1216	1223	1232	1228	557
35°	1038	1052	1052	1058	1058	650
45°	835	850	859	942	977	645
55°	617	638	794	847	829	553
65°	410	492	595	532	536	407
75°	223	333	280	283	285	237
85°	63	99	99	98	96	68
90°	24	52	57	54	51	15
95°	25	37	41	36	32	20
105°	20	29	36	29	25	21
115°	10	19	32	27	24	11
125°	4	7	22	24	23	4
135°	2	1	11	17	18	1
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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1387.9	1387.9	1387.9	1387.9	1387.9
2.5°	1395.9	1389.2	1381.9	1390.6	1387.2
5°	1390.6	1383.9	1379.2	1391.3	1387.2
7.5°	1382.6	1377.9	1375.2	1385.2	1379.9
10°	1368.5	1366.5	1363.2	1373.2	1364.5
12.5°	1351.2	1353.2	1344.5	1355.8	1350.5
15°	1331.8	1335.8	1325.8	1341.8	1336.5
17.5°	1306.4	1311.1	1305.1	1325.1	1319.1
20°	1277.0	1279.7	1283.7	1297.7	1296.4
22.5°	1246.9	1248.9	1255.6	1266.3	1263.0
25°	1210.2	1215.5	1222.9	1232.2	1227.5
27.5°	1170.7	1178.8	1186.1	1193.5	1185.4
30°	1132.0	1136.0	1149.4	1148.7	1142.7
32.5°	1087.2	1097.2	1102.6	1100.6	1101.2
35°	1038.4	1051.8	1052.5	1058.5	1057.8
37.5°	990.3	1005.0	1003.0	1014.4	1016.4
40°	942.2	952.2	954.2	974.3	991.7
42.5°	890.8	900.8	906.1	948.2	980.3
45°	835.3	850.0	859.3	941.5	977.0
47.5°	783.2	796.5	823.3	941.5	981.6
50°	727.0	743.1	798.5	939.5	952.2
52.5°	672.9	688.9	791.2	910.8	888.7
55°	616.8	638.2	793.9	846.6	829.3
57.5°	564.7	594.7	787.2	769.8	735.1
60°	509.2	553.3	751.1	684.3	665.6
62.5°	460.4	519.9	681.6	602.7	596.1
65°	409.6	492.5	595.4	531.9	535.9
67.5°	363.5	467.8	505.2	467.1	469.8
70°	314.7	438.4	421.0	405.6	404.9
72.5°	269.3	396.3	347.5	342.8	344.8
75°	223.2	333.4	280.0	283.3	285.3
77.5°	181.1	269.3	224.5	228.5	228.5
80°	137.7	201.1	171.7	179.1	179.8
82.5°	98.9	143.7	131.0	135.0	131.6
85°	62.8	98.9	98.9	98.2	95.6
87.5°	35.4	68.2	72.2	71.5	68.2
90°	24.1	51.5	56.8	54.1	50.8
92.5°	24.1	43.4	47.4	42.8	39.4
95°	24.7	37.4	41.4	36.1	32.1
97.5°	24.1	34.7	38.8	32.1	28.1
100°	23.4	32.1	37.4	30.1	26.1
102.5°	22.1	30.7	36.8	28.7	24.7
105°	20.0	29.4	36.1	28.7	24.7
107.5°	17.4	27.4	36.1	28.7	24.7
110°	15.4	24.7	35.4	28.1	24.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	12.7	22.1	34.1	28.1	24.1
115°	10.0	19.4	32.1	27.4	24.1
117.5°	8.7	16.0	30.1	27.4	24.1
120°	6.7	13.4	28.1	26.1	23.4
122.5°	5.3	10.0	25.4	25.4	22.7
125°	4.0	7.4	22.1	24.1	22.7
127.5°	3.3	5.3	19.4	22.7	22.1
130°	2.7	3.3	16.7	21.4	20.7
132.5°	2.0	2.0	14.0	19.4	19.4
135°	2.0	1.3	11.4	17.4	18.0
137.5°	1.3	1.3	8.7	14.7	16.0
140°	1.3	1.3	6.7	12.7	14.0
142.5°	1.3	1.3	4.7	10.0	11.4
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)