

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: P237729

Luminaire Tested: **2VT2-LD5-2-DR-W-UNV-L840-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237729
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-9)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2VT2-LD5-2-DR-W-UNV-L840-CD1-WL-U
Description: METALUX VT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/15% DR HIGH IMPACT ADDITIVE WIDE DISTRIBUTION
2FT FIXTURE
Light Source: (56) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2090.9 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.56 / 1.55
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 2.08' x H: 0.17')
CIE Type: Direct

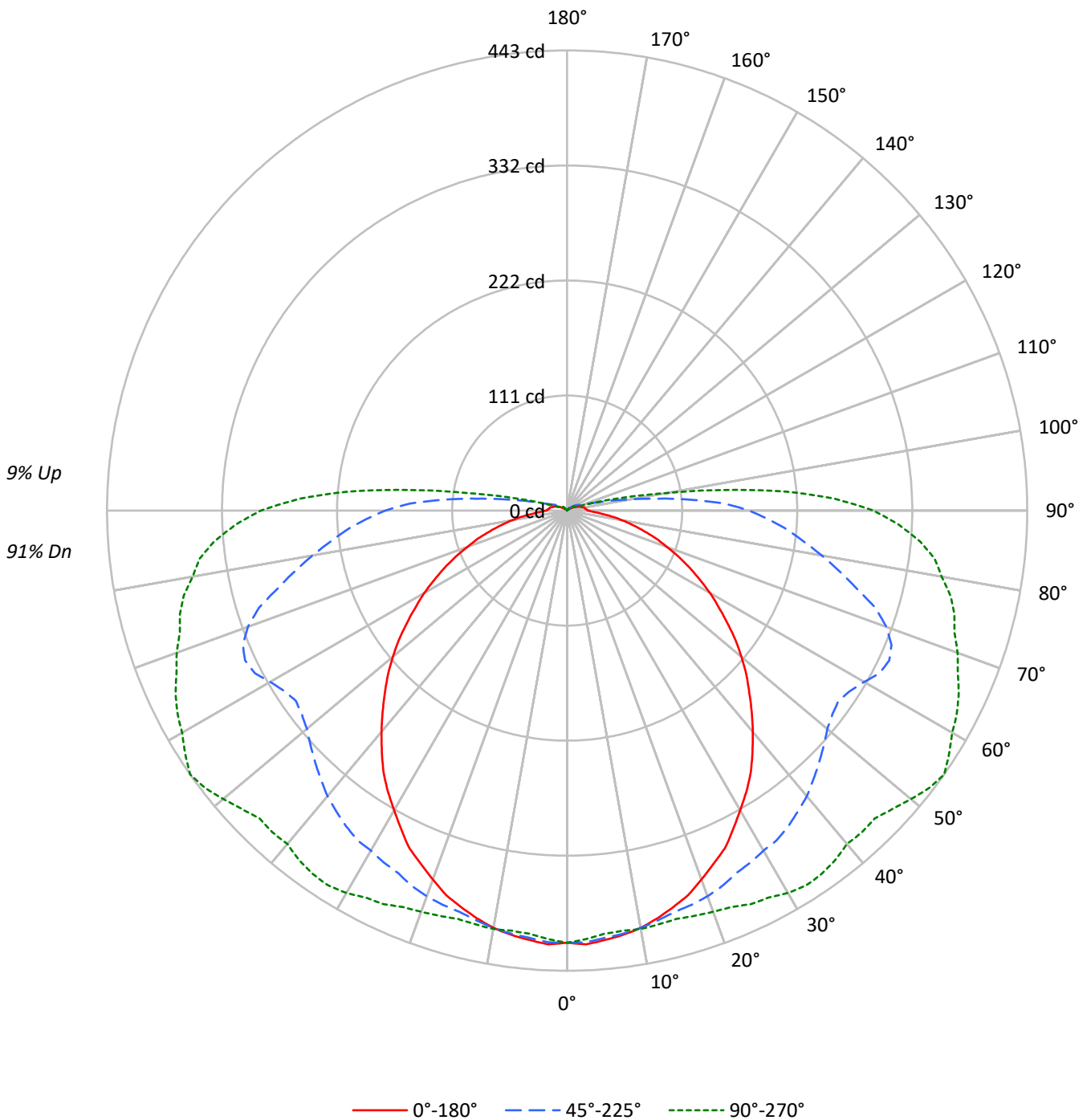
Input Watts (W): 17.38
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	91
1	102	95	89	83	98	92	86	81	86	81	77	80	76	73	75	72	69	66
2	90	80	71	64	87	77	69	62	72	65	59	67	62	57	63	58	54	51
3	81	69	59	51	78	66	57	50	62	54	48	58	51	46	54	48	44	41
4	74	60	49	42	71	58	48	41	54	46	39	50	43	38	47	41	36	34
5	67	53	43	35	65	51	42	34	48	40	33	45	38	32	42	36	31	28
6	62	47	37	30	59	46	36	29	43	35	28	40	33	28	38	32	27	24
7	57	42	33	26	55	41	32	26	39	31	25	36	29	24	34	28	23	21
8	53	39	29	23	51	37	29	23	35	27	22	33	26	21	31	25	21	18
9	50	35	26	20	48	34	26	20	32	25	20	31	24	19	29	23	18	16
10	46	32	24	18	45	32	23	18	30	23	18	28	22	17	27	21	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4299	4299	4299
5°	4275	4177	4122
10°	4222	4071	4053
15°	4137	3968	3997
20°	4039	3926	4031
25°	3946	3863	4125
30°	3798	3859	4253
35°	3679	3885	4367
40°	3514	3889	4417
45°	3356	3879	4592
50°	3214	3899	4970
55°	3040	4055	5407
60°	2886	4528	5608
65°	2713	5140	5931
70°	2526	5479	6308
75°	2367	5500	6868
80°	2210	5576	7535
85°	2044	5818	8405



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.3	1.9
10°-20°	113.6	5.4
20°-30°	178.7	8.5
30°-40°	230.5	11.0
40°-50°	262.3	12.5
50°-60°	286.6	13.7
60°-70°	295.7	14.1
70°-80°	277.8	13.3
80°-90°	225.4	10.8
90°-100°	129.1	6.2
100°-110°	33.3	1.6
110°-120°	10.8	0.5
120°-130°	5.6	0.3
130°-140°	2.1	0.1
140°-150°	0.2	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	331.6	15.9
0°-40°	562.1	26.9
0°-60°	1110.9	53.1
0°-90°	1909.9	91.3
90°-120°	173.1	8.3
90°-150°	181.0	8.7
90°-180°	181.0	8.7
0°-180°	2090.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	416	416	416	416	416	
5°	415	415	413	411	409	39
15°	395	397	400	407	407	111
25°	359	365	385	409	418	165
35°	308	324	371	411	427	192
45°	248	278	343	398	419	192
55°	188	227	319	418	443	169
65°	130	183	342	398	416	129
75°	77	179	288	356	386	82
85°	33	125	213	305	341	31
90°	20	93	175	260	295	11
95°	18	61	120	185	211	14
105°	14	21	30	34	35	15
115°	8	10	13	10	8	8
125°	4	4	8	8	6	3
135°	1	1	3	4	4	1
145°	1	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°	416	416	416	416	416
2.5°	418	418	416	415	413
5°	415	415	413	411	409
7.5°	412	411	411	410	408
10°	408	407	408	408	409
12.5°	402	403	404	407	408
15°	395	397	400	407	407
17.5°	388	389	398	407	409
20°	378	383	395	406	411
22.5°	368	374	391	407	413
25°	359	365	385	409	418
27.5°	346	356	382	409	420
30°	333	346	378	410	425
32.5°	321	335	376	412	428
35°	308	324	371	411	427
37.5°	293	314	365	407	424
40°	278	302	359	404	419
42.5°	263	290	351	399	420
45°	248	278	343	398	419
47.5°	234	266	335	398	425
50°	219	254	327	404	432
52.5°	204	241	322	410	439
55°	188	227	319	418	443
57.5°	173	215	323	421	436
60°	159	203	330	415	428
62.5°	144	192	339	407	423
65°	130	183	342	398	416
67.5°	116	178	338	388	407
70°	102	176	327	376	400
72.5°	90	178	311	365	391
75°	77	179	288	356	386
77.5°	65	176	268	347	378
80°	54	163	249	333	366
82.5°	43	145	230	321	357
85°	33	125	213	305	341
87.5°	24	108	194	287	320
90°	20	93	175	260	295
92.5°	19	77	152	228	258
95°	18	61	120	185	211
97.5°	17	47	88	131	152
100°	17	36	62	87	97
102.5°	15	27	44	55	60
105°	14	21	30	34	35
107.5°	13	17	22	22	20
110°	11	14	18	15	13



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	10	12	15	12	10
115°	8	10	13	10	8
117.5°	7	8	12	10	8
120°	5	7	11	9	7
122.5°	4	5	9	8	7
125°	4	4	8	8	6
127.5°	3	3	7	7	6
130°	2	2	5	6	5
132.5°	2	1	4	5	5
135°	1	1	3	4	4
137.5°	1	1	2	3	3
140°	1	0	1	2	2
142.5°	1	0	0	1	1
145°	1	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)