

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: P393399

Luminaire Tested: **22EN-LD2-43-UNV-L92765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393399
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22EN-LD2-43-UNV-L92765-W2A-1-U (5000K)
Description: 2X2 ENCOUNTER, 4300 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3621.9 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

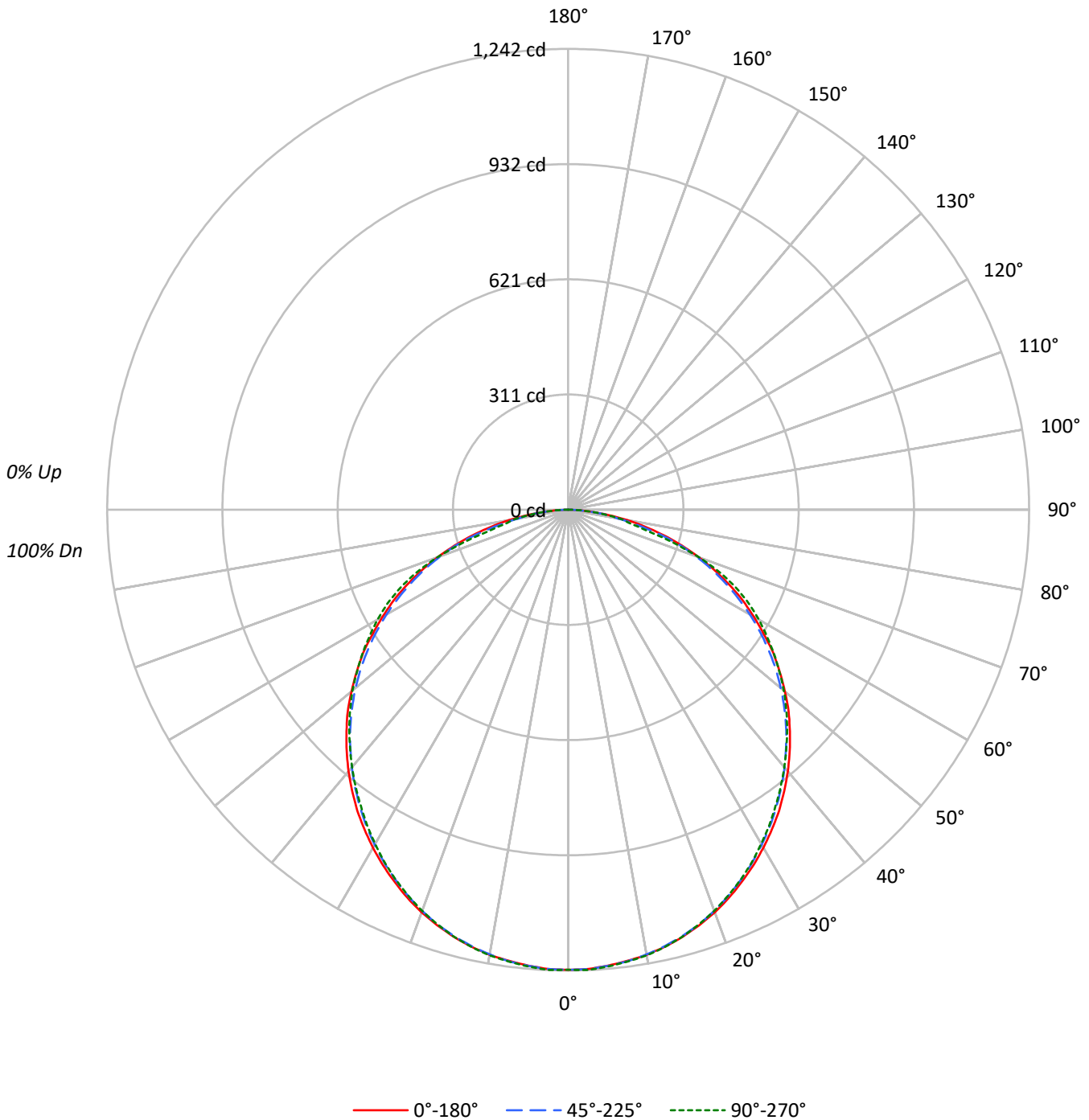
Input Watts (W): 32.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33					33			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3337	3337	3337
5°	3331	3333	3338
10°	3328	3326	3333
15°	3321	3313	3318
20°	3307	3295	3295
25°	3286	3268	3266
30°	3269	3240	3232
35°	3254	3212	3201
40°	3233	3186	3183
45°	3214	3160	3176
50°	3190	3130	3176
55°	3168	3092	3175
60°	3108	3044	3194
65°	3054	2974	3182
70°	2944	2878	2951
75°	2778	2629	2287
80°	2495	2091	2247
85°	1846	1899	1822



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.3	3.2
10°-20°	335.7	9.3
20°-30°	507.9	14.0
30°-40°	613.2	16.9
40°-50°	643.8	17.8
50°-60°	596.1	16.5
60°-70°	471.7	13.0
70°-80°	265.3	7.3
80°-90°	71.0	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
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°	960.9	26.5
0°-40°	1574.1	43.5
0°-60°	2814.0	77.7
0°-90°	3621.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3621.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1240	1240	1240	1240	1240	
5°	1233	1232	1234	1234	1236	117
15°	1192	1190	1189	1189	1191	336
25°	1107	1105	1101	1099	1100	510
35°	990	986	978	973	974	619
45°	845	840	830	828	834	652
55°	675	668	659	665	677	601
65°	480	474	467	485	500	473
75°	267	263	253	231	220	282
85°	60	58	62	58	59	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1239.9	1239.9	1239.9	1239.9	1239.9
2.5°	1239.1	1238.2	1239.1	1239.1	1241.6
5°	1233.2	1232.3	1234.0	1234.0	1235.7
7.5°	1226.4	1225.6	1227.3	1227.3	1228.1
10°	1218.0	1216.3	1217.1	1218.0	1219.7
12.5°	1206.2	1204.5	1204.5	1205.3	1207.0
15°	1191.9	1190.2	1189.3	1189.3	1191.0
17.5°	1174.2	1171.6	1171.6	1169.9	1171.6
20°	1154.8	1152.2	1150.6	1148.9	1150.6
22.5°	1132.0	1129.5	1127.0	1125.3	1126.1
25°	1106.7	1105.0	1100.8	1099.1	1100.0
27.5°	1080.6	1078.1	1073.0	1069.6	1071.3
30°	1051.9	1048.6	1042.7	1038.5	1040.1
32.5°	1021.6	1018.2	1011.5	1006.4	1008.1
35°	990.4	986.2	977.8	972.7	974.4
37.5°	955.8	952.5	943.2	938.1	940.7
40°	920.4	917.1	907.0	902.7	906.1
42.5°	883.4	880.0	869.0	864.8	869.9
45°	844.6	840.4	830.3	827.7	834.5
47.5°	805.8	799.9	789.8	788.1	796.5
50°	762.0	757.8	747.7	748.5	758.6
52.5°	718.2	714.8	704.7	708.0	717.3
55°	675.2	668.4	659.1	665.0	676.8
57.5°	625.4	621.2	612.8	622.1	634.7
60°	577.4	574.0	565.6	577.4	593.4
62.5°	530.2	523.4	515.9	532.7	549.6
65°	479.6	473.7	467.0	484.7	499.8
67.5°	427.4	421.4	416.4	432.4	443.4
70°	374.2	369.2	365.8	370.9	375.1
72.5°	321.1	316.1	313.6	301.8	298.4
75°	267.2	263.0	252.9	231.0	220.0
77.5°	213.3	208.2	191.3	170.3	171.1
80°	161.0	155.1	134.9	140.8	145.0
82.5°	109.6	105.4	101.1	99.5	100.3
85°	59.8	58.2	61.5	58.2	59.0
87.5°	24.4	25.3	27.0	26.1	26.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)