

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: P393405

Luminaire Tested: **22EN-LD2-43-UNV-L93050-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393405
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-L93050-W2A-1-U (4000K)
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: 3753.4 lumens
Efficiency: N/A
Efficacy: 115.5 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

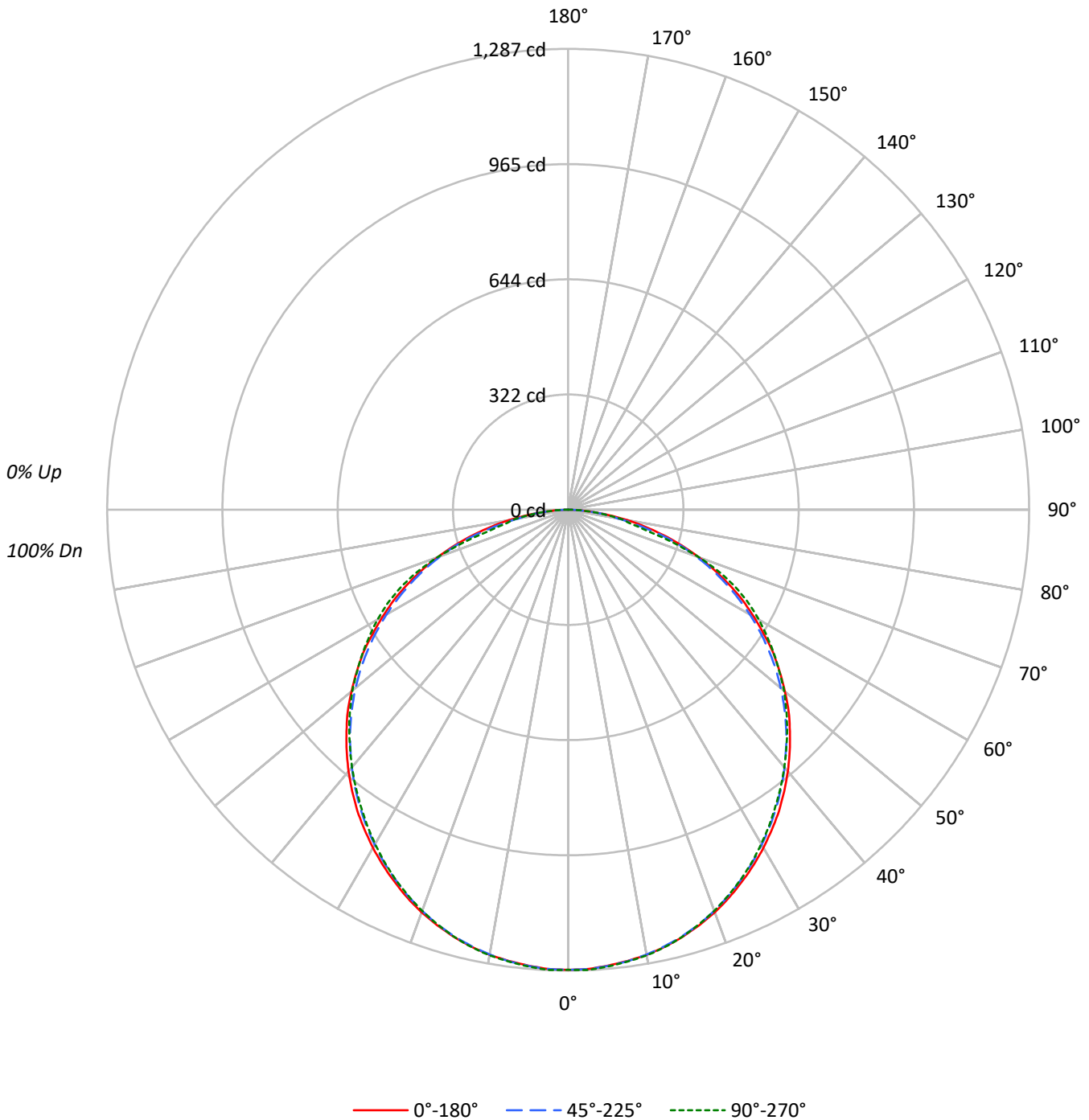
Input Watts (W): 32.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3458	3458	3458
5°	3452	3454	3459
10°	3449	3446	3454
15°	3441	3434	3439
20°	3427	3414	3414
25°	3405	3387	3385
30°	3387	3357	3349
35°	3372	3329	3317
40°	3351	3302	3299
45°	3331	3274	3291
50°	3306	3244	3291
55°	3283	3205	3291
60°	3221	3154	3309
65°	3165	3081	3298
70°	3051	2983	3058
75°	2879	2725	2371
80°	2585	2166	2328
85°	1914	1970	1886



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.5	3.2
10°-20°	347.9	9.3
20°-30°	526.3	14.0
30°-40°	635.5	16.9
40°-50°	667.2	17.8
50°-60°	617.8	16.5
60°-70°	488.8	13.0
70°-80°	274.9	7.3
80°-90°	73.6	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°	995.8	26.5
0°-40°	1631.2	43.5
0°-60°	2916.2	77.7
0°-90°	3753.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3753.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1285	1285	1285	1285	1285	
5°	1278	1277	1279	1279	1281	122
15°	1235	1233	1232	1232	1234	349
25°	1147	1145	1141	1139	1140	529
35°	1026	1022	1013	1008	1010	642
45°	875	871	860	858	865	675
55°	700	693	683	689	701	623
65°	497	491	484	502	518	491
75°	277	272	262	239	228	292
85°	62	60	64	60	61	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1284.9	1284.9	1284.9	1284.9	1284.9
2.5°	1284.1	1283.2	1284.1	1284.1	1286.7
5°	1277.9	1277.1	1278.8	1278.8	1280.6
7.5°	1271.0	1270.1	1271.8	1271.8	1272.7
10°	1262.2	1260.5	1261.3	1262.2	1264.0
12.5°	1250.0	1248.2	1248.2	1249.1	1250.9
15°	1235.1	1233.4	1232.5	1232.5	1234.3
17.5°	1216.8	1214.2	1214.2	1212.4	1214.2
20°	1196.7	1194.1	1192.3	1190.6	1192.3
22.5°	1173.1	1170.5	1167.9	1166.1	1167.0
25°	1146.9	1145.2	1140.8	1139.1	1139.9
27.5°	1119.8	1117.2	1112.0	1108.5	1110.2
30°	1090.1	1086.6	1080.5	1076.2	1077.9
32.5°	1058.7	1055.2	1048.2	1043.0	1044.7
35°	1026.4	1022.0	1013.3	1008.0	1009.8
37.5°	990.6	987.1	977.5	972.2	974.8
40°	953.9	950.4	939.9	935.5	939.0
42.5°	915.4	911.9	900.6	896.2	901.5
45°	875.3	870.9	860.4	857.8	864.8
47.5°	835.1	829.0	818.5	816.7	825.5
50°	789.6	785.3	774.8	775.7	786.2
52.5°	744.2	740.7	730.3	733.7	743.4
55°	699.7	692.7	683.1	689.2	701.4
57.5°	648.1	643.8	635.0	644.6	657.8
60°	598.4	594.9	586.1	598.4	614.9
62.5°	549.4	542.4	534.6	552.1	569.5
65°	497.0	490.9	483.9	502.3	518.0
67.5°	442.9	436.8	431.5	448.1	459.5
70°	387.8	382.6	379.1	384.3	388.7
72.5°	332.8	327.6	324.9	312.7	309.2
75°	276.9	272.5	262.1	239.3	228.0
77.5°	221.0	215.8	198.3	176.4	177.3
80°	166.8	160.7	139.8	145.9	150.2
82.5°	113.6	109.2	104.8	103.1	103.9
85°	62.0	60.3	63.8	60.3	61.1
87.5°	25.3	26.2	28.0	27.1	27.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)