

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: P393382

Luminaire Tested: **22EN-LD2-43-UNV-L82765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393382
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-L82765-W2A-1-U (4500K)
Description: 2X2 ENCOUNTER, 4300 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4132.9 lumens
Efficiency: N/A
Efficacy: 126.4 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

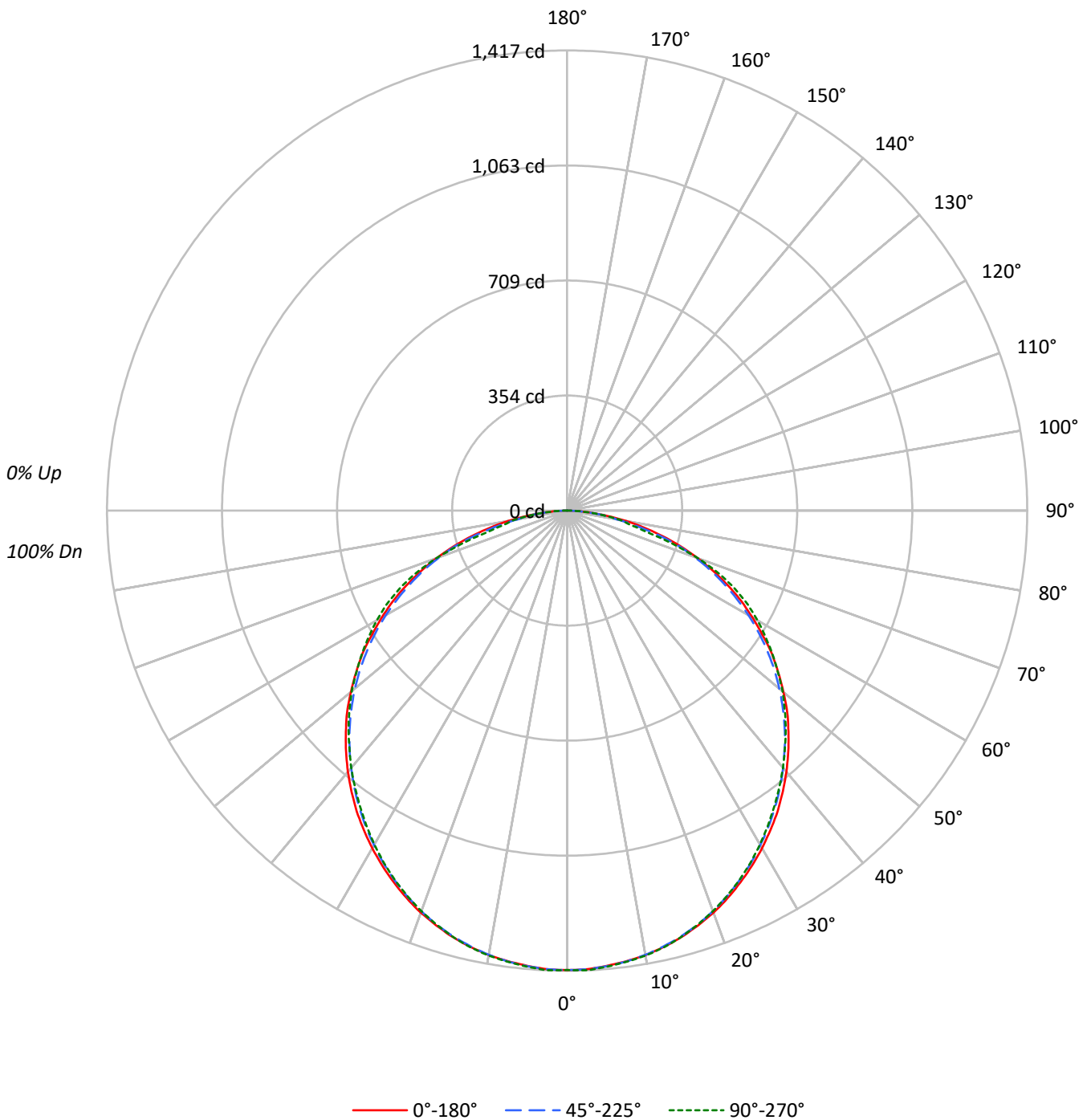
Input Watts (W): 32.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3807	3807	3807
5°	3801	3804	3809
10°	3798	3795	3803
15°	3789	3781	3786
20°	3773	3760	3760
25°	3750	3730	3727
30°	3730	3697	3688
35°	3713	3665	3653
40°	3690	3635	3632
45°	3668	3605	3624
50°	3640	3571	3624
55°	3614	3529	3623
60°	3546	3474	3644
65°	3485	3393	3632
70°	3360	3284	3367
75°	3170	3000	2610
80°	2847	2385	2563
85°	2109	2167	2078



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.8	3.2
10°-20°	383.1	9.3
20°-30°	579.5	14.0
30°-40°	699.7	16.9
40°-50°	734.6	17.8
50°-60°	680.2	16.5
60°-70°	538.2	13.0
70°-80°	302.7	7.3
80°-90°	81.0	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°	1096.4	26.5
0°-40°	1796.2	43.5
0°-60°	3211.0	77.7
0°-90°	4132.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4132.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1415	1415	1415	1415	1415	
5°	1407	1406	1408	1408	1410	134
15°	1360	1358	1357	1357	1359	384
25°	1263	1261	1256	1254	1255	582
35°	1130	1125	1116	1110	1112	707
45°	964	959	947	944	952	744
55°	770	763	752	759	772	686
65°	547	540	533	553	570	540
75°	305	300	288	264	251	322
85°	68	66	70	66	67	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1414.9	1414.9	1414.9	1414.9	1414.9
2.5°	1413.9	1412.9	1413.9	1413.9	1416.8
5°	1407.2	1406.2	1408.1	1408.1	1410.0
7.5°	1399.5	1398.5	1400.4	1400.4	1401.4
10°	1389.8	1387.9	1388.9	1389.8	1391.8
12.5°	1376.4	1374.5	1374.5	1375.4	1377.3
15°	1360.0	1358.1	1357.1	1357.1	1359.1
17.5°	1339.8	1336.9	1336.9	1335.0	1336.9
20°	1317.7	1314.8	1312.9	1311.0	1312.9
22.5°	1291.7	1288.9	1286.0	1284.0	1285.0
25°	1262.9	1261.0	1256.2	1254.2	1255.2
27.5°	1233.1	1230.2	1224.4	1220.6	1222.5
30°	1200.4	1196.5	1189.8	1185.0	1186.9
32.5°	1165.7	1161.9	1154.2	1148.4	1150.3
35°	1130.2	1125.3	1115.7	1110.0	1111.9
37.5°	1090.7	1086.9	1076.3	1070.5	1073.4
40°	1050.3	1046.5	1034.9	1030.1	1034.0
42.5°	1008.0	1004.2	991.6	986.8	992.6
45°	963.8	958.9	947.4	944.5	952.2
47.5°	919.5	912.8	901.2	899.3	908.9
50°	869.5	864.7	853.1	854.1	865.6
52.5°	819.5	815.6	804.1	807.9	818.5
55°	770.4	762.7	752.2	758.9	772.3
57.5°	713.7	708.9	699.3	709.8	724.3
60°	658.9	655.0	645.4	658.9	677.1
62.5°	605.0	597.3	588.6	607.9	627.1
65°	547.3	540.5	532.9	553.1	570.4
67.5°	487.6	480.9	475.1	493.4	505.9
70°	427.1	421.3	417.4	423.2	428.0
72.5°	366.5	360.7	357.8	344.3	340.5
75°	304.9	300.1	288.5	263.5	251.0
77.5°	243.3	237.6	218.3	194.3	195.3
80°	183.7	177.0	153.9	160.6	165.4
82.5°	125.0	120.2	115.4	113.5	114.5
85°	68.3	66.4	70.2	66.4	67.3
87.5°	27.9	28.9	30.8	29.8	29.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)