

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: P393381

Luminaire Tested: **22EN-LD2-43-UNV-L82765-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393381
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 (4000K)
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: 4014.0 lumens
Efficiency: N/A
Efficacy: 122.0 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

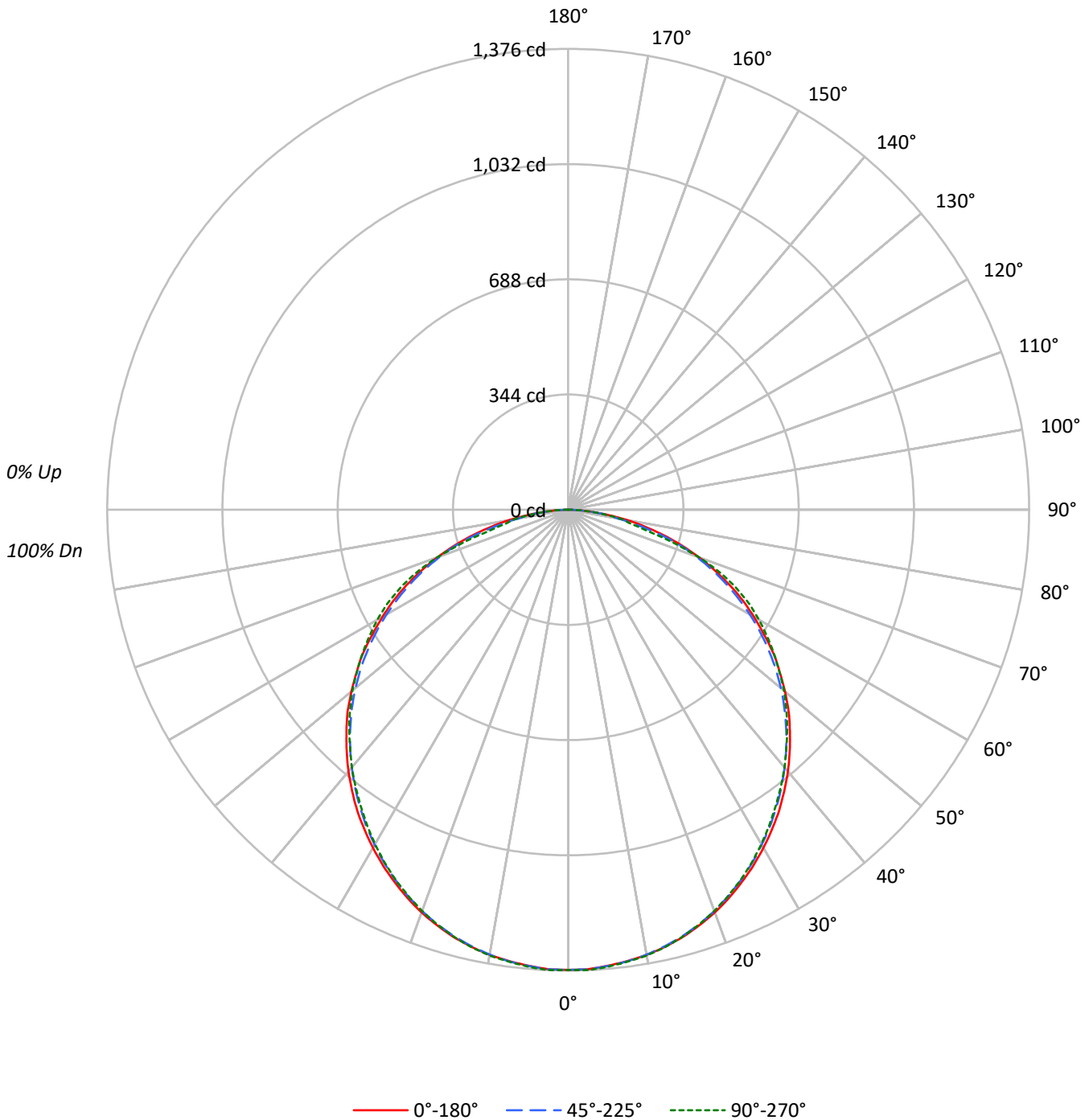
Input Watts (W): 32.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3698	3698	3698
5°	3692	3694	3699
10°	3688	3686	3694
15°	3680	3672	3677
20°	3665	3651	3651
25°	3642	3622	3620
30°	3622	3590	3582
35°	3606	3560	3548
40°	3583	3531	3528
45°	3562	3502	3519
50°	3535	3469	3520
55°	3511	3427	3519
60°	3444	3373	3539
65°	3384	3295	3527
70°	3264	3190	3271
75°	3079	2913	2535
80°	2765	2317	2490
85°	2047	2106	2019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.0	3.2
10°-20°	372.1	9.3
20°-30°	562.9	14.0
30°-40°	679.6	16.9
40°-50°	713.5	17.8
50°-60°	660.6	16.5
60°-70°	522.8	13.0
70°-80°	294.0	7.3
80°-90°	78.7	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°	1064.9	26.5
0°-40°	1744.5	43.5
0°-60°	3118.6	77.7
0°-90°	4014.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4014.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1374	1374	1374	1374	1374	
5°	1367	1366	1368	1368	1370	130
15°	1321	1319	1318	1318	1320	373
25°	1226	1225	1220	1218	1219	566
35°	1098	1093	1084	1078	1080	686
45°	936	931	920	917	925	722
55°	748	741	730	737	750	667
65°	532	525	518	537	554	525
75°	296	292	280	256	244	312
85°	66	64	68	64	65	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1374.1	1374.1	1374.1	1374.1	1374.1
2.5°	1373.2	1372.3	1373.2	1373.2	1376.0
5°	1366.7	1365.7	1367.6	1367.6	1369.5
7.5°	1359.2	1358.2	1360.1	1360.1	1361.1
10°	1349.8	1348.0	1348.9	1349.8	1351.7
12.5°	1336.8	1334.9	1334.9	1335.8	1337.7
15°	1320.9	1319.0	1318.1	1318.1	1319.9
17.5°	1301.3	1298.5	1298.5	1296.6	1298.5
20°	1279.8	1277.0	1275.1	1273.2	1275.1
22.5°	1254.6	1251.8	1249.0	1247.1	1248.0
25°	1226.5	1224.7	1220.0	1218.1	1219.1
27.5°	1197.6	1194.8	1189.2	1185.4	1187.3
30°	1165.8	1162.1	1155.5	1150.9	1152.7
32.5°	1132.2	1128.4	1121.0	1115.4	1117.2
35°	1097.6	1093.0	1083.6	1078.0	1079.9
37.5°	1059.3	1055.6	1045.3	1039.7	1042.5
40°	1020.1	1016.4	1005.1	1000.5	1004.2
42.5°	979.0	975.2	963.1	958.4	964.0
45°	936.0	931.3	920.1	917.3	924.8
47.5°	893.0	886.5	875.3	873.4	882.8
50°	844.5	839.8	828.6	829.5	840.7
52.5°	795.9	792.2	780.9	784.7	795.0
55°	748.3	740.8	730.5	737.0	750.1
57.5°	693.1	688.5	679.1	689.4	703.4
60°	639.9	636.2	626.8	639.9	657.6
62.5°	587.6	580.1	571.7	590.4	609.1
65°	531.5	525.0	517.5	537.1	553.9
67.5°	473.6	467.1	461.5	479.2	491.4
70°	414.8	409.2	405.4	411.0	415.7
72.5°	355.9	350.3	347.5	334.4	330.7
75°	296.1	291.5	280.2	256.0	243.8
77.5°	236.3	230.7	212.1	188.7	189.6
80°	178.4	171.9	149.5	156.0	160.7
82.5°	121.4	116.8	112.1	110.2	111.2
85°	66.3	64.5	68.2	64.5	65.4
87.5°	27.1	28.0	29.9	29.0	29.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)