

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: P393204

Luminaire Tested: **14EN-LD2-51-UNV-L92765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393204
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-56)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-51-UNV-L92765-W2A-1-U (3500K)
Description: 1X4 ENCOUNTER, 5100 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4024.6 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

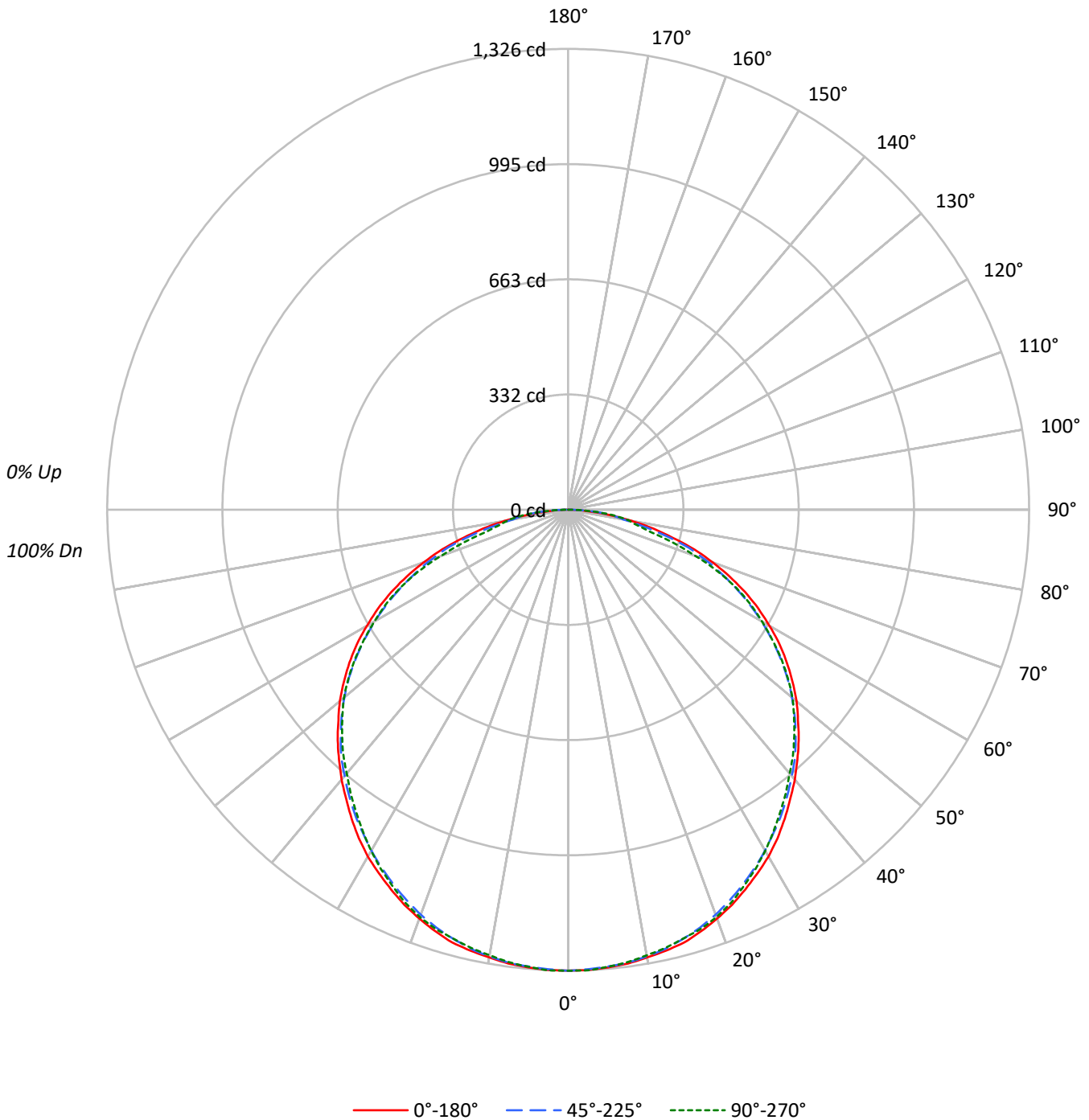
Input Watts (W): 50.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	54	49	44	42
6	69	55	46	40	67	54	46	39	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3570	3570	3570
5°	3571	3564	3566
10°	3575	3566	3558
15°	3592	3561	3559
20°	3586	3552	3572
25°	3579	3532	3548
30°	3581	3519	3521
35°	3567	3515	3491
40°	3561	3514	3480
45°	3569	3520	3499
50°	3591	3518	3527
55°	3604	3496	3511
60°	3597	3457	3465
65°	3575	3384	3404
70°	3477	3290	3078
75°	3236	3030	2519
80°	2859	2504	2737
85°	2053	2689	2739



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.9	3.1
10°-20°	361.6	9.0
20°-30°	550.2	13.7
30°-40°	672.1	16.7
40°-50°	715.9	17.8
50°-60°	671.4	16.7
60°-70°	532.9	13.2
70°-80°	303.3	7.5
80°-90°	91.3	2.3
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°	1037.7	25.8
0°-40°	1709.8	42.5
0°-60°	3097.1	77.0
0°-90°	4024.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4024.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1326	1326	1326	1326	1326	
5°	1322	1326	1319	1328	1320	126
15°	1289	1284	1278	1280	1277	364
25°	1205	1194	1190	1187	1195	556
35°	1086	1080	1070	1068	1063	680
45°	938	936	925	919	920	724
55°	768	761	745	742	748	686
65°	562	550	531	535	535	554
75°	311	303	291	258	242	331
85°	66	74	87	86	89	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1326.5	1326.5	1326.5	1326.5	1326.5
2.5°	1325.7	1331.3	1323.4	1329.7	1326.5
5°	1321.8	1325.7	1319.4	1328.1	1320.2
7.5°	1317.0	1319.4	1314.6	1322.6	1313.1
10°	1308.3	1309.9	1305.1	1311.5	1302.0
12.5°	1299.6	1297.2	1294.1	1296.4	1291.7
15°	1289.3	1283.8	1278.2	1279.8	1277.4
17.5°	1271.9	1264.7	1260.8	1259.2	1265.5
20°	1252.1	1243.4	1240.2	1238.6	1247.3
22.5°	1230.7	1219.6	1215.6	1214.1	1224.4
25°	1205.4	1194.3	1189.5	1187.1	1195.1
27.5°	1179.2	1167.3	1161.8	1160.2	1165.8
30°	1152.3	1138.8	1132.5	1131.7	1133.3
32.5°	1120.6	1110.3	1100.8	1101.6	1098.4
35°	1085.8	1080.2	1069.9	1068.3	1062.8
37.5°	1049.3	1049.3	1035.9	1038.3	1028.0
40°	1013.7	1014.5	1000.2	1001.0	990.7
42.5°	975.7	978.1	966.2	959.8	957.5
45°	937.7	936.1	925.0	918.7	919.5
47.5°	896.5	896.5	883.8	878.3	880.7
50°	857.7	854.5	840.3	835.5	842.6
52.5°	813.3	809.4	795.1	789.6	796.7
55°	768.2	761.1	745.2	742.1	748.4
57.5°	721.5	712.0	694.5	693.0	696.1
60°	668.4	660.5	642.3	639.1	643.9
62.5°	616.9	605.8	587.6	587.6	592.4
65°	561.5	550.4	531.4	535.4	534.6
67.5°	502.9	491.8	475.2	476.8	468.0
70°	441.9	429.2	418.2	403.1	391.2
72.5°	380.1	366.7	362.7	327.9	316.0
75°	311.2	303.3	291.4	258.2	242.3
77.5°	250.3	242.3	221.0	195.6	199.6
80°	184.5	186.1	161.6	171.1	176.6
82.5°	121.2	125.1	130.7	137.8	139.4
85°	66.5	74.4	87.1	86.3	88.7
87.5°	26.1	34.8	38.0	39.6	37.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)