

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: P393126

Luminaire Tested: **14EN-LD2-43-UNV-L82765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393126
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-54)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-43-UNV-L82765-W2A-1-U (4500K)
Description: 1X4 ENCOUNTER, 4300 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4090.5 lumens
Efficiency: N/A
Efficacy: 98.3 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

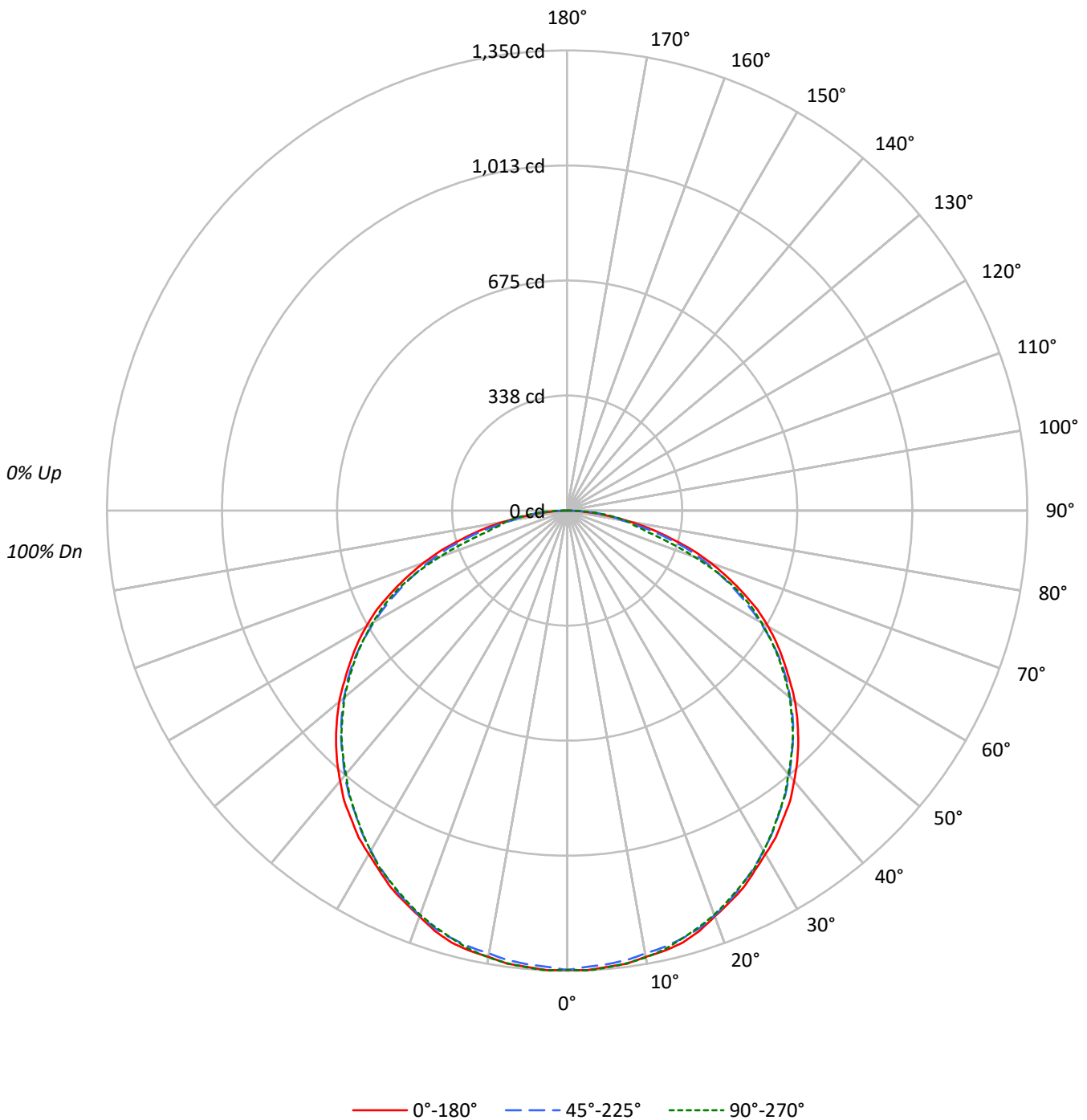
Input Watts (W): 41.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P393126

CATALOG NUMBER: 14EN-LD2-43-UNV-L82765-W2A-1-U (4500K)

Luminous Intensity Polar Plot





TEST NUMBER: P393126

CATALOG NUMBER: 14EN-LD2-43-UNV-L82765-W2A-1-U (4500K)

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°	3626	3626	3626
5°	3630	3609	3635
10°	3632	3606	3637
15°	3655	3623	3623
20°	3627	3619	3614
25°	3627	3601	3595
30°	3616	3581	3583
35°	3627	3561	3558
40°	3639	3561	3548
45°	3649	3569	3565
50°	3656	3576	3568
55°	3646	3578	3560
60°	3665	3520	3546
65°	3619	3429	3497
70°	3526	3330	3141
75°	3270	3070	2560
80°	2892	2504	2757
85°	2109	2732	2791



TEST NUMBER: P393126

CATALOG NUMBER: 14EN-LD2-43-UNV-L82765-W2A-1-U (4500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.7	3.1
10°-20°	367.7	9.0
20°-30°	559.5	13.7
30°-40°	683.0	16.7
40°-50°	727.7	17.8
50°-60°	682.3	16.7
60°-70°	541.9	13.2
70°-80°	308.1	7.5
80°-90°	92.5	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°	1054.9	25.8
0°-40°	1737.9	42.5
0°-60°	3147.9	77.0
0°-90°	4090.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4090.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1348	1348	1348	1348	1348	
5°	1344	1341	1336	1347	1346	128
15°	1312	1308	1300	1298	1300	369
25°	1222	1216	1213	1209	1211	562
35°	1104	1095	1084	1087	1083	692
45°	959	954	938	935	937	740
55°	777	770	763	753	759	696
65°	568	559	539	545	549	562
75°	314	312	295	263	246	335
85°	68	75	88	88	90	84
90°	0	0	0	0	0	



TEST NUMBER: P393126

CATALOG NUMBER: 14EN-LD2-43-UNV-L82765-W2A-1-U (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1347.5	1347.5	1347.5	1347.5	1347.5
2.5°	1349.4	1345.6	1339.8	1352.3	1350.4
5°	1343.7	1340.8	1336.0	1346.6	1345.6
7.5°	1340.8	1335.0	1330.2	1341.8	1339.8
10°	1329.2	1330.2	1319.6	1331.2	1331.2
12.5°	1322.5	1320.6	1311.9	1315.8	1318.7
15°	1311.9	1308.1	1300.4	1298.5	1300.4
17.5°	1292.7	1288.9	1286.0	1279.2	1282.1
20°	1266.7	1268.7	1263.8	1258.1	1261.9
22.5°	1244.6	1242.7	1240.8	1235.0	1236.9
25°	1221.5	1215.8	1212.9	1209.0	1210.9
27.5°	1191.7	1187.9	1184.0	1182.1	1185.9
30°	1163.8	1158.0	1152.3	1150.3	1153.2
32.5°	1137.8	1127.3	1120.5	1121.5	1118.6
35°	1104.2	1094.6	1084.0	1086.9	1083.0
37.5°	1074.4	1062.8	1051.3	1054.2	1049.4
40°	1035.9	1029.2	1013.8	1015.7	1009.9
42.5°	999.3	995.5	975.3	976.3	973.4
45°	958.9	954.1	937.8	934.9	936.8
47.5°	916.6	911.8	897.4	890.7	893.5
50°	873.3	867.6	854.1	848.3	852.2
52.5°	824.3	821.4	810.8	802.2	805.1
55°	777.2	770.4	762.7	753.1	758.9
57.5°	731.0	723.3	708.9	704.1	709.8
60°	681.0	668.5	654.0	650.2	658.9
62.5°	629.0	614.6	596.3	597.3	607.9
65°	568.4	558.8	538.6	545.4	549.2
67.5°	506.9	499.2	480.0	489.6	479.0
70°	448.2	438.6	423.2	410.7	399.2
72.5°	385.7	374.2	364.5	331.8	318.4
75°	314.5	311.6	295.3	262.6	246.2
77.5°	253.9	247.2	225.1	200.1	202.0
80°	186.6	191.4	161.6	173.1	177.9
82.5°	123.1	126.0	133.7	139.5	138.5
85°	68.3	75.0	88.5	88.5	90.4
87.5°	26.0	33.7	38.5	39.4	39.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)