

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: P393133

Luminaire Tested: **14EN-LD2-43-UNV-L83050-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393133
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-L83050-W2A-1-U (4000K)
Description: 1X4 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: 4270.9 lumens
Efficiency: N/A
Efficacy: 101.9 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

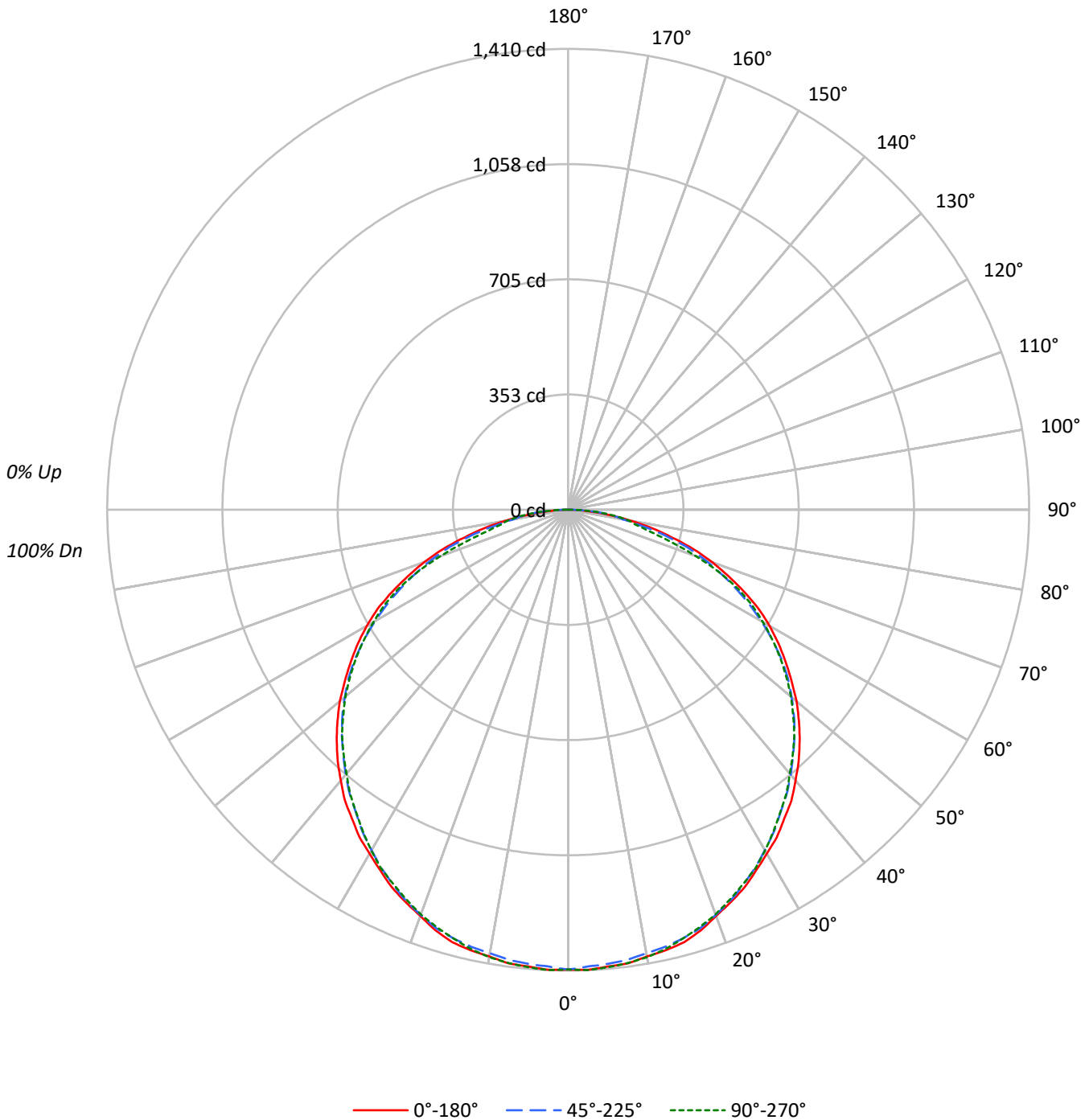
Input Watts (W): 41.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3786	3786	3786
5°	3790	3768	3795
10°	3792	3765	3798
15°	3816	3783	3783
20°	3788	3779	3773
25°	3787	3760	3754
30°	3776	3738	3741
35°	3787	3718	3715
40°	3799	3718	3704
45°	3810	3726	3722
50°	3818	3733	3725
55°	3807	3736	3718
60°	3827	3675	3702
65°	3779	3581	3651
70°	3682	3477	3279
75°	3414	3205	2673
80°	3019	2614	2879
85°	2201	2853	2915



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.3	3.1
10°-20°	383.9	9.0
20°-30°	584.2	13.7
30°-40°	713.1	16.7
40°-50°	759.8	17.8
50°-60°	712.4	16.7
60°-70°	565.8	13.2
70°-80°	321.7	7.5
80°-90°	96.6	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°	1101.5	25.8
0°-40°	1814.6	42.5
0°-60°	3286.7	77.0
0°-90°	4270.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4270.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1407	1407	1407	1407	1407	
5°	1403	1400	1395	1406	1405	134
15°	1370	1366	1358	1356	1358	386
25°	1275	1269	1266	1262	1264	587
35°	1153	1143	1132	1135	1131	723
45°	1001	996	979	976	978	772
55°	811	804	796	786	792	726
65°	594	584	562	569	573	586
75°	328	325	308	274	257	350
85°	71	78	92	92	94	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1407.0	1407.0	1407.0	1407.0	1407.0
2.5°	1409.0	1404.9	1398.9	1412.0	1410.0
5°	1402.9	1399.9	1394.9	1406.0	1404.9
7.5°	1399.9	1393.9	1388.9	1400.9	1398.9
10°	1387.9	1388.9	1377.8	1389.9	1389.9
12.5°	1380.8	1378.8	1369.8	1373.8	1376.8
15°	1369.8	1365.8	1357.8	1355.7	1357.8
17.5°	1349.7	1345.7	1342.7	1335.7	1338.7
20°	1322.6	1324.6	1319.6	1313.6	1317.6
22.5°	1299.5	1297.5	1295.5	1289.5	1291.5
25°	1275.4	1269.4	1266.4	1262.3	1264.4
27.5°	1244.3	1240.3	1236.2	1234.2	1238.2
30°	1215.1	1209.1	1203.1	1201.1	1204.1
32.5°	1188.0	1177.0	1170.0	1171.0	1167.9
35°	1152.9	1142.8	1131.8	1134.8	1130.8
37.5°	1121.8	1109.7	1097.6	1100.7	1095.6
40°	1081.6	1074.6	1058.5	1060.5	1054.5
42.5°	1043.4	1039.4	1018.3	1019.3	1016.3
45°	1001.2	996.2	979.1	976.1	978.1
47.5°	957.1	952.0	937.0	929.9	933.0
50°	911.9	905.8	891.8	885.8	889.8
52.5°	860.6	857.6	846.6	837.5	840.6
55°	811.4	804.4	796.4	786.3	792.4
57.5°	763.2	755.2	740.1	735.1	741.1
60°	711.0	698.0	682.9	678.9	687.9
62.5°	656.8	641.7	622.6	623.6	634.7
65°	593.5	583.5	562.4	569.4	573.4
67.5°	529.2	521.2	501.1	511.2	500.1
70°	468.0	457.9	441.9	428.8	416.8
72.5°	402.7	390.7	380.6	346.5	332.4
75°	328.4	325.4	308.3	274.2	257.1
77.5°	265.1	258.1	235.0	208.9	210.9
80°	194.8	199.8	168.7	180.8	185.8
82.5°	128.5	131.6	139.6	145.6	144.6
85°	71.3	78.3	92.4	92.4	94.4
87.5°	27.1	35.1	40.2	41.2	41.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)