

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: P393390

Luminaire Tested: **22EN-LD2-43-UNV-L83050-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393390
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-L83050-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: 4373.6 lumens
Efficiency: N/A
Efficacy: 133.7 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

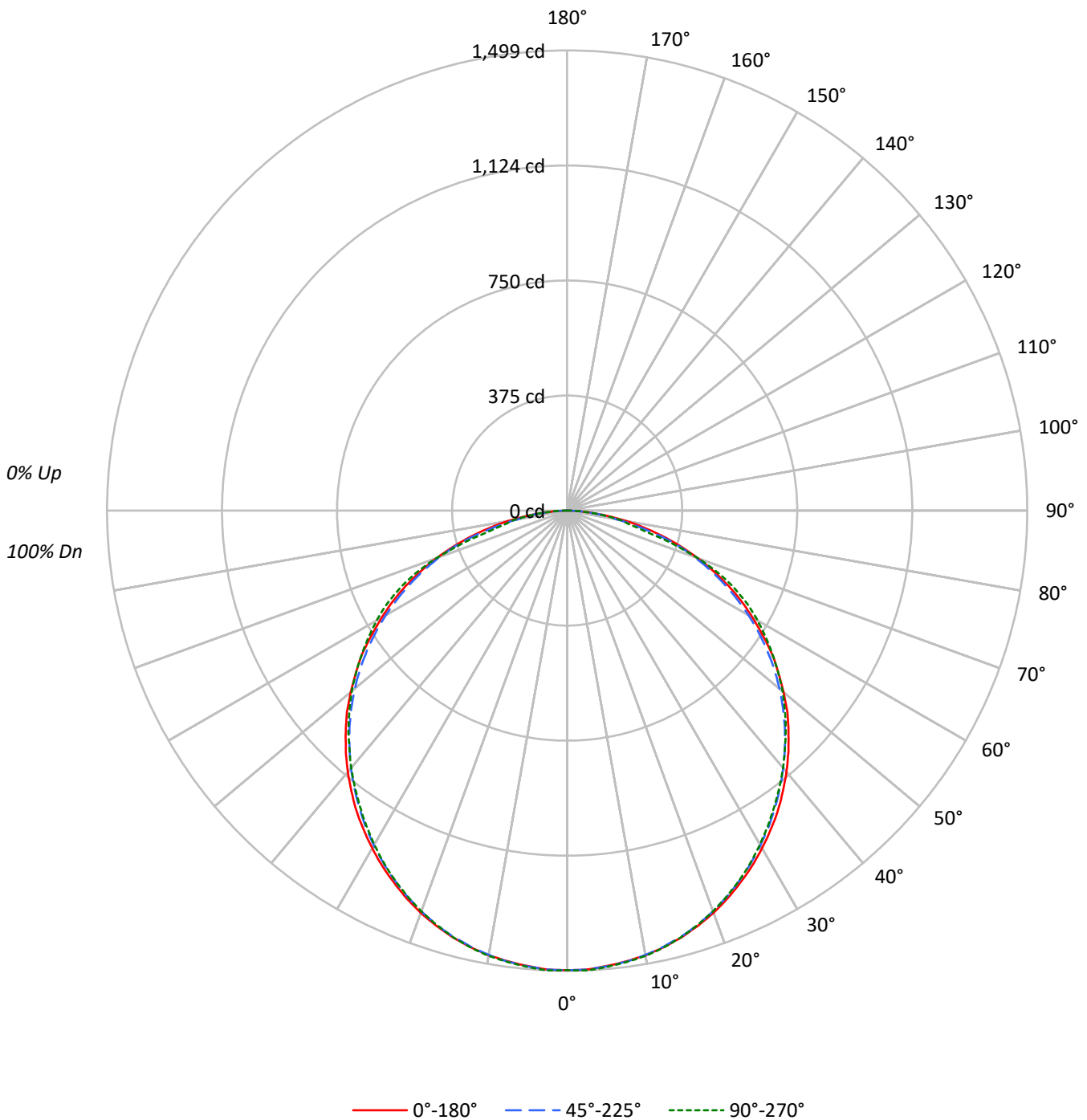
Input Watts (W): 32.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4029	4029	4029
5°	4022	4025	4031
10°	4019	4016	4024
15°	4009	4001	4007
20°	3993	3979	3979
25°	3968	3947	3944
30°	3947	3912	3903
35°	3929	3879	3865
40°	3905	3847	3844
45°	3881	3816	3835
50°	3852	3779	3835
55°	3825	3734	3834
60°	3752	3676	3856
65°	3687	3591	3843
70°	3556	3475	3563
75°	3355	3174	2763
80°	3013	2524	2713
85°	2232	2294	2198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.6	3.2
10°-20°	405.4	9.3
20°-30°	613.3	14.0
30°-40°	740.5	16.9
40°-50°	777.4	17.8
50°-60°	719.8	16.5
60°-70°	569.6	13.0
70°-80°	320.3	7.3
80°-90°	85.7	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°	1160.3	26.5
0°-40°	1900.8	43.5
0°-60°	3397.9	77.7
0°-90°	4373.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4373.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1497	1497	1497	1497	1497	
5°	1489	1488	1490	1490	1492	142
15°	1439	1437	1436	1436	1438	406
25°	1336	1334	1329	1327	1328	616
35°	1196	1191	1181	1175	1177	748
45°	1020	1015	1003	1000	1008	787
55°	815	807	796	803	817	726
65°	579	572	564	585	604	572
75°	323	318	305	279	266	340
85°	72	70	74	70	71	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1497.2	1497.2	1497.2	1497.2	1497.2
2.5°	1496.2	1495.2	1496.2	1496.2	1499.3
5°	1489.1	1488.1	1490.1	1490.1	1492.1
7.5°	1480.9	1479.9	1482.0	1482.0	1483.0
10°	1470.8	1468.7	1469.7	1470.8	1472.8
12.5°	1456.5	1454.5	1454.5	1455.5	1457.5
15°	1439.2	1437.2	1436.2	1436.2	1438.2
17.5°	1417.8	1414.8	1414.8	1412.7	1414.8
20°	1394.4	1391.4	1389.3	1387.3	1389.3
22.5°	1366.9	1363.9	1360.8	1358.8	1359.8
25°	1336.4	1334.4	1329.3	1327.2	1328.3
27.5°	1304.9	1301.8	1295.7	1291.6	1293.7
30°	1270.2	1266.2	1259.1	1254.0	1256.0
32.5°	1233.6	1229.5	1221.4	1215.3	1217.3
35°	1195.9	1190.9	1180.7	1174.6	1176.6
37.5°	1154.2	1150.1	1138.9	1132.8	1135.9
40°	1111.5	1107.4	1095.2	1090.1	1094.2
42.5°	1066.7	1062.6	1049.4	1044.3	1050.4
45°	1019.9	1014.8	1002.6	999.5	1007.6
47.5°	973.0	965.9	953.7	951.7	961.8
50°	920.1	915.0	902.8	903.8	916.0
52.5°	867.2	863.1	850.9	855.0	866.2
55°	815.3	807.1	795.9	803.1	817.3
57.5°	755.2	750.1	740.0	751.2	766.4
60°	697.2	693.1	683.0	697.2	716.5
62.5°	640.2	632.1	622.9	643.3	663.6
65°	579.1	572.0	563.9	585.2	603.6
67.5°	516.0	508.9	502.8	522.1	535.4
70°	451.9	445.8	441.7	447.8	452.9
72.5°	387.8	381.7	378.6	364.4	360.3
75°	322.7	317.6	305.3	278.9	265.7
77.5°	257.5	251.4	231.0	205.6	206.6
80°	194.4	187.3	162.9	170.0	175.1
82.5°	132.3	127.2	122.1	120.1	121.1
85°	72.3	70.2	74.3	70.2	71.2
87.5°	29.5	30.5	32.6	31.6	31.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)