

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: P393387

Luminaire Tested: **22EN-LD2-43-UNV-L83050-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393387
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 (3000K)
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: 4228.0 lumens
Efficiency: N/A
Efficacy: 127.0 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

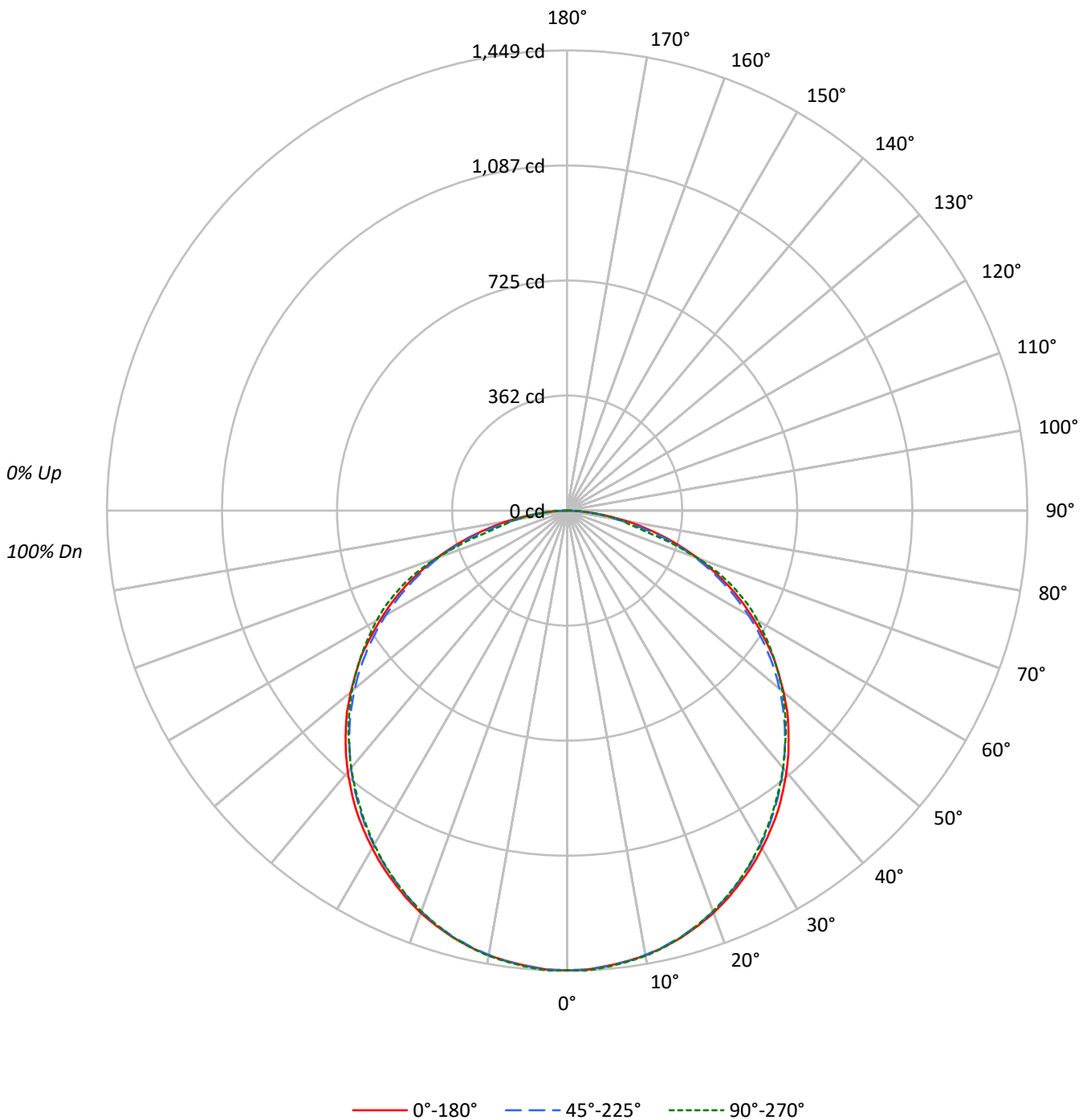
Input Watts (W): 33.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3895	3895	3895
5°	3888	3891	3897
10°	3885	3882	3891
15°	3876	3868	3873
20°	3860	3846	3846
25°	3836	3815	3813
30°	3816	3782	3773
35°	3798	3750	3736
40°	3775	3719	3716
45°	3752	3688	3707
50°	3724	3654	3707
55°	3697	3610	3707
60°	3627	3553	3728
65°	3565	3471	3715
70°	3437	3360	3445
75°	3243	3069	2670
80°	2912	2439	2622
85°	2158	2217	2127



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.9	3.2
10°-20°	391.9	9.3
20°-30°	592.9	14.0
30°-40°	715.8	16.9
40°-50°	751.5	17.8
50°-60°	695.9	16.5
60°-70°	550.6	13.0
70°-80°	309.7	7.3
80°-90°	82.8	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°	1121.7	26.5
0°-40°	1837.5	43.5
0°-60°	3284.8	77.7
0°-90°	4228.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4228.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1447	1447	1447	1447	1447	
5°	1440	1438	1440	1440	1442	137
15°	1391	1389	1388	1388	1390	393
25°	1292	1290	1285	1283	1284	596
35°	1156	1151	1141	1136	1137	723
45°	986	981	969	966	974	761
55°	788	780	769	776	790	702
65°	560	553	545	566	584	553
75°	312	307	295	270	257	329
85°	70	68	72	68	69	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1447.4	1447.4	1447.4	1447.4	1447.4
2.5°	1446.4	1445.4	1446.4	1446.4	1449.4
5°	1439.5	1438.5	1440.5	1440.5	1442.5
7.5°	1431.6	1430.7	1432.6	1432.6	1433.6
10°	1421.8	1419.8	1420.8	1421.8	1423.8
12.5°	1408.0	1406.1	1406.1	1407.0	1409.0
15°	1391.3	1389.3	1388.3	1388.3	1390.3
17.5°	1370.6	1367.7	1367.7	1365.7	1367.7
20°	1348.0	1345.1	1343.1	1341.1	1343.1
22.5°	1321.4	1318.5	1315.5	1313.6	1314.6
25°	1291.9	1290.0	1285.0	1283.1	1284.1
27.5°	1261.4	1258.5	1252.6	1248.6	1250.6
30°	1228.0	1224.0	1217.1	1212.2	1214.2
32.5°	1192.5	1188.6	1180.7	1174.8	1176.8
35°	1156.1	1151.2	1141.4	1135.5	1137.4
37.5°	1115.8	1111.9	1101.0	1095.1	1098.1
40°	1074.5	1070.5	1058.7	1053.8	1057.7
42.5°	1031.2	1027.2	1014.4	1009.5	1015.4
45°	985.9	981.0	969.2	966.2	974.1
47.5°	940.7	933.8	922.0	920.0	929.8
50°	889.5	884.6	872.8	873.7	885.6
52.5°	838.3	834.4	822.6	826.5	837.3
55°	788.1	780.3	769.4	776.3	790.1
57.5°	730.1	725.2	715.3	726.2	740.9
60°	674.0	670.1	660.2	674.0	692.7
62.5°	618.9	611.0	602.2	621.9	641.5
65°	559.9	553.0	545.1	565.8	583.5
67.5°	498.9	492.0	486.1	504.8	517.6
70°	436.9	431.0	427.0	432.9	437.9
72.5°	374.9	369.0	366.0	352.3	348.3
75°	311.9	307.0	295.2	269.6	256.8
77.5°	248.9	243.0	223.4	198.8	199.7
80°	187.9	181.0	157.4	164.3	169.2
82.5°	127.9	123.0	118.1	116.1	117.1
85°	69.9	67.9	71.8	67.9	68.9
87.5°	28.5	29.5	31.5	30.5	30.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)