

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: P393398

Luminaire Tested: **22EN-LD2-43-UNV-L92765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393398
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-L92765-W2A-1-U (4500K)
Description: 2X2 ENCOUNTER, 4300 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3529.9 lumens
Efficiency: N/A
Efficacy: 107.6 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

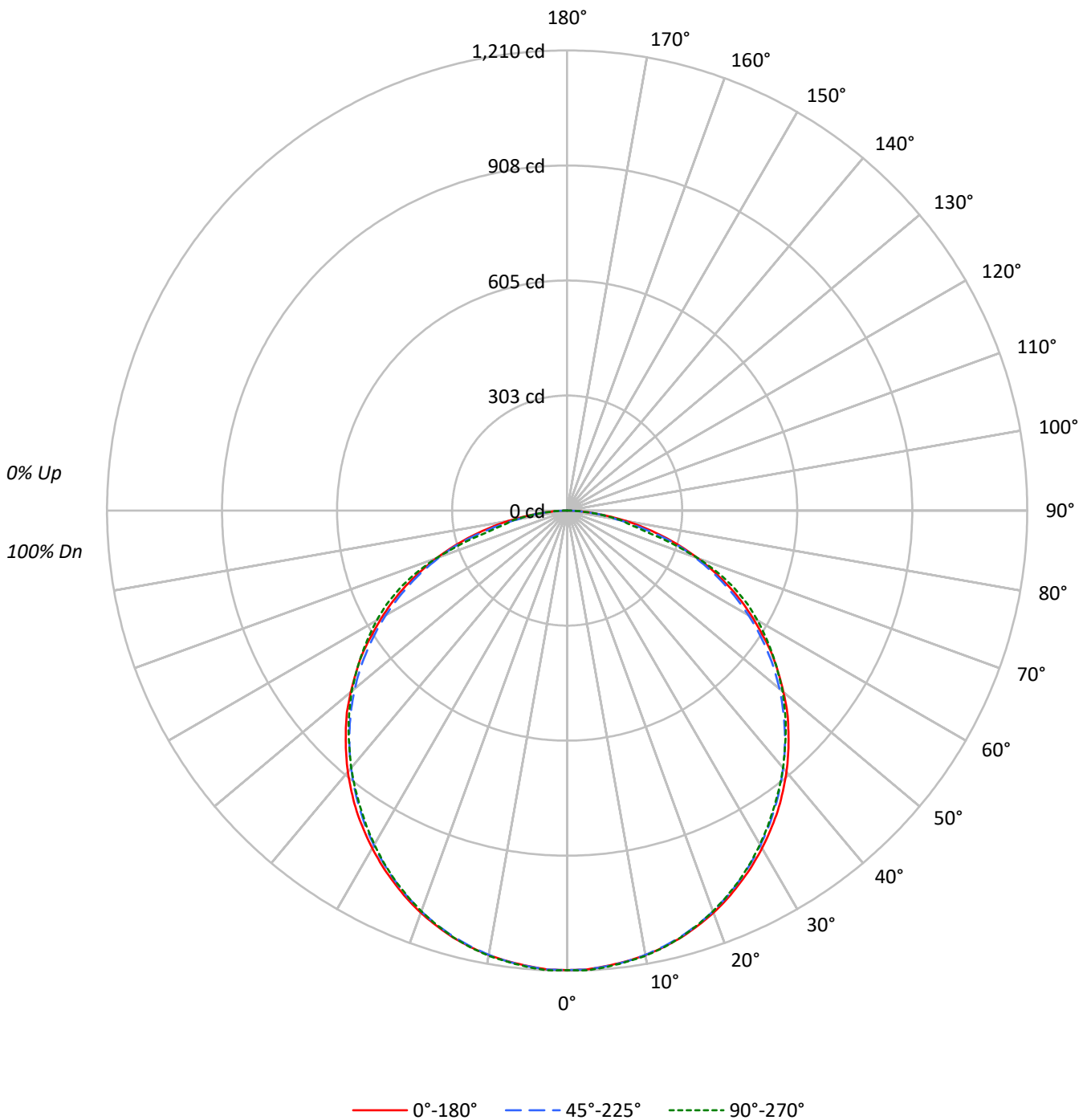
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P393398

CATALOG NUMBER: 22EN-LD2-43-UNV-L92765-W2A-1-U (4500K)

Luminous Intensity Polar Plot





TEST NUMBER: P393398

CATALOG NUMBER: 22EN-LD2-43-UNV-L92765-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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33					33			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3252	3252	3252
5°	3246	3249	3253
10°	3244	3241	3248
15°	3236	3229	3234
20°	3223	3211	3211
25°	3203	3186	3183
30°	3186	3158	3150
35°	3171	3130	3120
40°	3151	3105	3102
45°	3132	3080	3095
50°	3109	3051	3095
55°	3087	3014	3095
60°	3028	2967	3112
65°	2976	2898	3102
70°	2869	2805	2877
75°	2707	2562	2229
80°	2431	2036	2190
85°	1800	1853	1775



TEST NUMBER: P393398

CATALOG NUMBER: 22EN-LD2-43-UNV-L92765-W2A-1-U (4500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.3	3.2
10°-20°	327.2	9.3
20°-30°	495.0	14.0
30°-40°	597.6	16.9
40°-50°	627.4	17.8
50°-60°	581.0	16.5
60°-70°	459.7	13.0
70°-80°	258.5	7.3
80°-90°	69.2	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°	936.5	26.5
0°-40°	1534.1	43.5
0°-60°	2742.5	77.7
0°-90°	3529.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3529.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1208	1208	1208	1208	1208	
5°	1202	1201	1203	1203	1204	114
15°	1162	1160	1159	1159	1161	328
25°	1079	1077	1073	1071	1072	497
35°	965	961	953	948	950	604
45°	823	819	809	807	813	635
55°	658	651	642	648	660	586
65°	467	462	455	472	487	461
75°	260	256	246	225	214	275
85°	58	57	60	57	58	73
90°	0	0	0	0	0	



TEST NUMBER: P393398

CATALOG NUMBER: 22EN-LD2-43-UNV-L92765-W2A-1-U (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1208.4	1208.4	1208.4	1208.4	1208.4
2.5°	1207.6	1206.8	1207.6	1207.6	1210.1
5°	1201.8	1201.0	1202.7	1202.7	1204.3
7.5°	1195.3	1194.4	1196.1	1196.1	1196.9
10°	1187.1	1185.4	1186.2	1187.1	1188.7
12.5°	1175.6	1173.9	1173.9	1174.7	1176.4
15°	1161.6	1159.9	1159.1	1159.1	1160.8
17.5°	1144.3	1141.9	1141.9	1140.2	1141.9
20°	1125.4	1123.0	1121.3	1119.7	1121.3
22.5°	1103.3	1100.8	1098.3	1096.7	1097.5
25°	1078.6	1077.0	1072.9	1071.2	1072.0
27.5°	1053.2	1050.7	1045.8	1042.5	1044.1
30°	1025.2	1021.9	1016.2	1012.1	1013.7
32.5°	995.6	992.4	985.8	980.9	982.5
35°	965.3	961.1	952.9	948.0	949.6
37.5°	931.6	928.3	919.2	914.3	916.8
40°	897.1	893.8	883.9	879.8	883.1
42.5°	860.9	857.6	847.0	842.8	847.8
45°	823.1	819.0	809.2	806.7	813.3
47.5°	785.3	779.6	769.7	768.1	776.3
50°	742.6	738.5	728.7	729.5	739.3
52.5°	699.9	696.6	686.8	690.1	699.1
55°	658.0	651.4	642.4	648.2	659.7
57.5°	609.5	605.4	597.2	606.3	618.6
60°	562.7	559.4	551.2	562.7	578.3
62.5°	516.7	510.1	502.8	519.2	535.6
65°	467.4	461.7	455.1	472.4	487.1
67.5°	416.5	410.7	405.8	421.4	432.1
70°	364.7	359.8	356.5	361.5	365.6
72.5°	313.0	308.1	305.6	294.1	290.8
75°	260.4	256.3	246.4	225.1	214.4
77.5°	207.8	202.9	186.5	165.9	166.8
80°	156.9	151.2	131.4	137.2	141.3
82.5°	106.8	102.7	98.6	96.9	97.8
85°	58.3	56.7	60.0	56.7	57.5
87.5°	23.8	24.6	26.3	25.5	25.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)