

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: P393325

Luminaire Tested: **22EN-LD2-34-UNV-L83050-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393325
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22EN-LD2-34-UNV-L83050-W2A-1-U (4000K)
Description: 2X2 ENCOUNTER, 3400 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3443.7 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

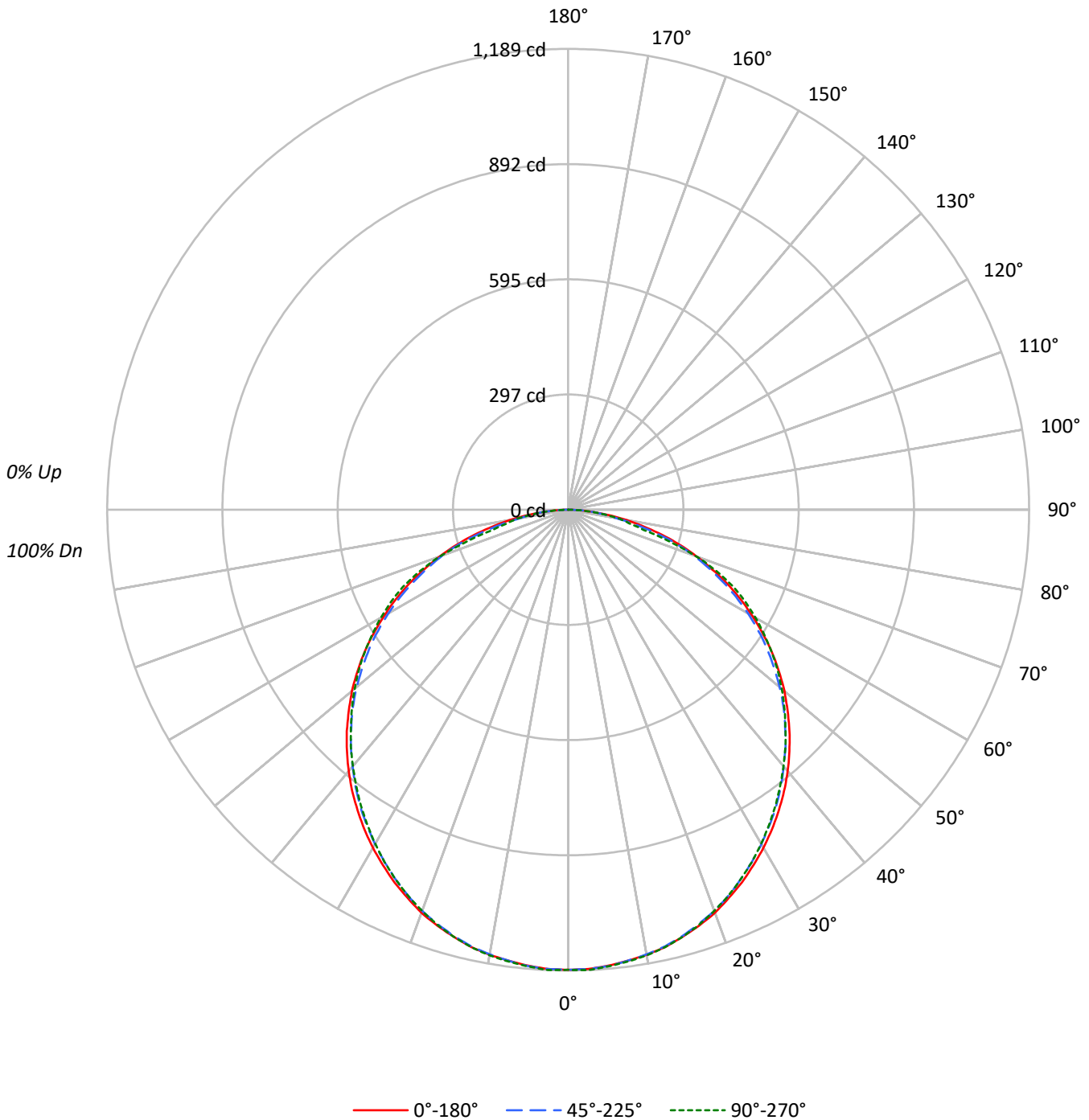
Input Watts (W): 25.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	91	88	90	87	85	83					83			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	52	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42					42			
6	70	56	47	40	68	55	46	40	53	46	40	52	45	40	50	44	39	37					37			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3194	3194	3194
5°	3190	3193	3196
10°	3186	3183	3191
15°	3178	3173	3178
20°	3169	3155	3155
25°	3149	3125	3125
30°	3130	3095	3092
35°	3111	3072	3061
40°	3094	3038	3034
45°	3073	3012	3016
50°	3048	2981	3010
55°	3011	2940	3006
60°	2951	2886	3005
65°	2884	2801	2993
70°	2773	2710	2773
75°	2600	2454	2099
80°	2334	1960	2101
85°	1735	1766	1735



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.3	3.3
10°-20°	321.5	9.3
20°-30°	485.9	14.1
30°-40°	586.1	17.0
40°-50°	613.8	17.8
50°-60°	565.9	16.4
60°-70°	444.2	12.9
70°-80°	247.8	7.2
80°-90°	66.2	1.9
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°	919.7	26.7
0°-40°	1505.7	43.7
0°-60°	2685.4	78.0
0°-90°	3443.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3443.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1187	1187	1187	1187	1187	
5°	1181	1180	1182	1182	1183	112
15°	1141	1139	1139	1139	1141	322
25°	1060	1056	1052	1052	1052	489
35°	947	943	935	930	932	593
45°	807	801	791	788	792	623
55°	642	635	627	631	641	573
65°	453	446	440	455	470	447
75°	250	245	236	212	202	264
85°	56	54	57	55	56	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1187.0	1187.0	1187.0	1187.0	1187.0
2.5°	1186.0	1185.0	1186.0	1187.0	1189.0
5°	1181.0	1180.0	1182.0	1182.0	1183.0
7.5°	1174.0	1173.0	1174.0	1175.0	1176.0
10°	1165.9	1164.9	1164.9	1165.9	1167.9
12.5°	1155.9	1153.9	1153.9	1153.9	1155.9
15°	1140.8	1138.8	1138.8	1138.8	1140.8
17.5°	1124.8	1122.8	1120.7	1120.7	1122.8
20°	1106.7	1103.7	1101.7	1100.7	1101.7
22.5°	1083.6	1081.6	1078.6	1076.6	1078.6
25°	1060.5	1056.5	1052.5	1051.5	1052.5
27.5°	1034.4	1030.4	1025.3	1023.3	1025.3
30°	1007.3	1002.2	996.2	993.2	995.2
32.5°	978.1	974.1	966.1	963.1	964.1
35°	947.0	943.0	935.0	929.9	931.9
37.5°	914.9	909.9	900.8	895.8	897.8
40°	880.7	874.7	864.7	860.6	863.7
42.5°	844.6	839.6	829.5	825.5	829.5
45°	807.4	801.4	791.4	788.3	792.4
47.5°	767.2	763.2	753.2	752.2	756.2
50°	728.1	721.1	712.0	713.0	719.0
52.5°	684.9	678.9	668.8	672.8	680.9
55°	641.7	634.7	626.7	630.7	640.7
57.5°	595.5	590.5	581.5	587.5	599.5
60°	548.3	544.3	536.3	546.3	558.4
62.5°	502.1	495.1	488.1	501.1	515.2
65°	452.9	445.9	439.9	454.9	470.0
67.5°	401.7	396.7	391.7	403.7	413.8
70°	352.5	347.5	344.5	346.5	352.5
72.5°	302.3	297.3	294.2	283.2	276.2
75°	250.1	245.0	236.0	211.9	201.9
77.5°	198.8	195.8	177.8	156.7	159.7
80°	150.6	145.6	126.5	130.6	135.6
82.5°	102.4	97.4	95.4	92.4	93.4
85°	56.2	54.2	57.2	55.2	56.2
87.5°	22.1	23.1	25.1	24.1	24.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)