

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: P238859

Luminaire Tested: **22ENA-LD2-25-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238859
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-118-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22ENA-LD2-25-UNV-L940-CD1-U
Description: METALUX ENCOUNTER 2X2 LED TROFFER
AIR-VENTED OPTION
Light Source: (168)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2325.0 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 1.83' x H: 0')
CIE Type: Direct

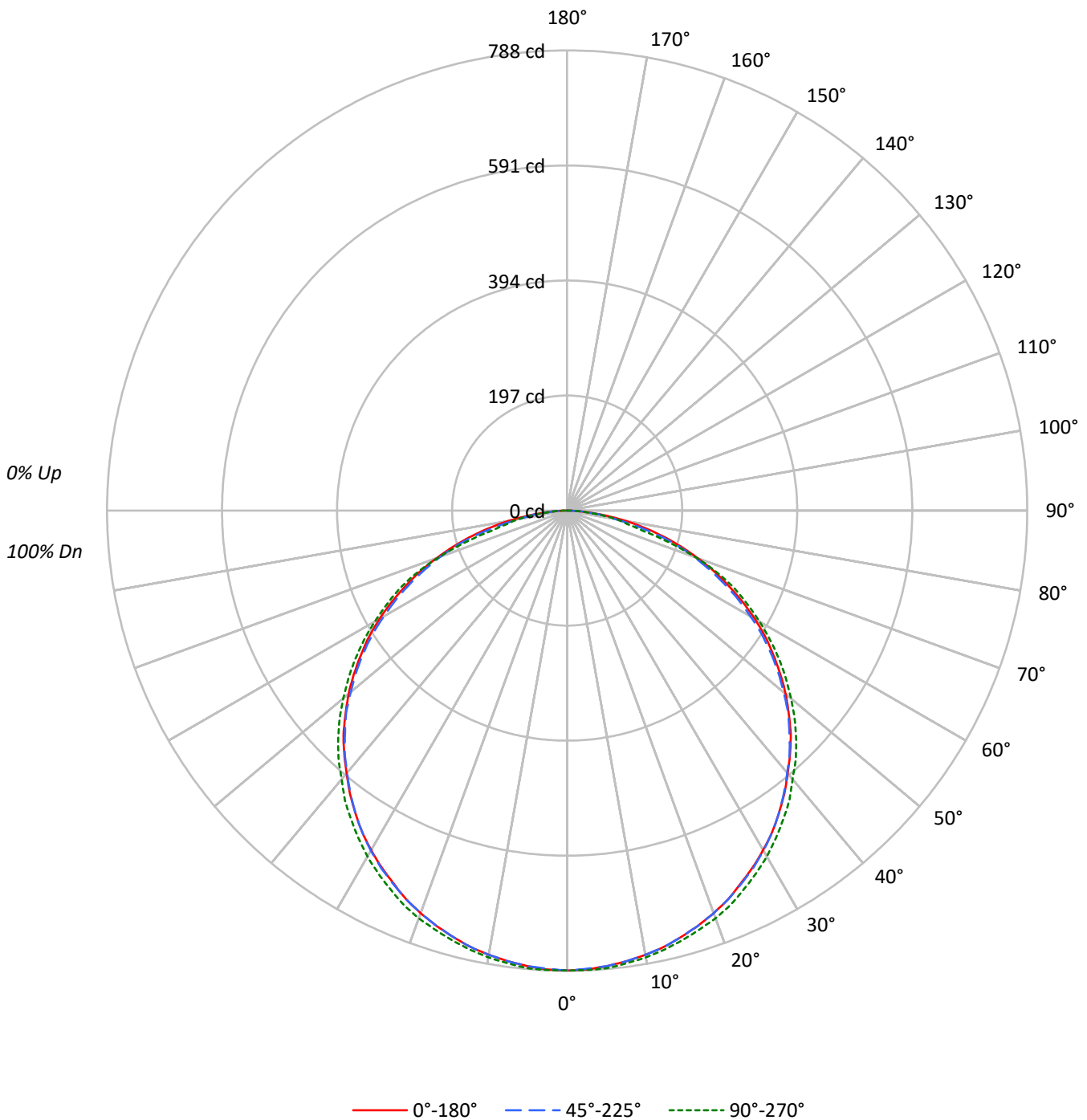
Input Watts (W): 20
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P238859

CATALOG NUMBER: 22ENA-LD2-25-UNV-L940-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P238859

CATALOG NUMBER: 22ENA-LD2-25-UNV-L940-CD1-U

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	98	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37
7	64	51	42	36	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°	2775	2775	2775
5°	2768	2768	2781
10°	2763	2763	2779
15°	2757	2757	2778
20°	2750	2750	2785
25°	2737	2741	2782
30°	2730	2735	2782
35°	2719	2719	2775
40°	2702	2696	2761
45°	2698	2680	2762
50°	2678	2652	2742
55°	2646	2618	2719
60°	2613	2555	2679
65°	2541	2473	2640
70°	2449	2377	2413
75°	2307	2163	1843
80°	2031	1696	1767
85°	1475	1427	1378



TEST NUMBER: P238859

CATALOG NUMBER: 22ENA-LD2-25-UNV-L940-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.5	3.2
10°-20°	213.8	9.2
20°-30°	326.4	14.0
30°-40°	397.5	17.1
40°-50°	418.4	18.0
50°-60°	385.3	16.6
60°-70°	299.9	12.9
70°-80°	166.4	7.2
80°-90°	42.7	1.8
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°	614.7	26.4
0°-40°	1012.2	43.5
0°-60°	1816.0	78.1
0°-90°	2325.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2325.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	788	788	788	788	788	
5°	783	783	783	785	786	74
15°	756	756	756	759	762	213
25°	704	705	705	711	716	325
35°	632	632	632	639	645	396
45°	542	538	538	546	554	417
55°	431	430	426	433	443	386
65°	305	301	297	306	317	302
75°	170	166	159	141	135	179
85°	36	34	35	34	34	46
90°	0	0	0	0	0	



TEST NUMBER: P238859

CATALOG NUMBER: 22ENA-LD2-25-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	787.6	787.6	787.6	787.6	787.6
2.5°	786.5	785.3	785.3	787.6	787.6
5°	782.9	782.9	782.9	785.3	786.5
7.5°	778.2	778.2	778.2	781.8	781.8
10°	772.3	771.2	772.3	774.7	777.0
12.5°	765.3	764.1	765.3	767.6	770.0
15°	755.9	755.9	755.9	759.4	761.7
17.5°	745.3	744.1	745.3	748.8	752.3
20°	733.5	733.5	733.5	738.2	742.9
22.5°	720.5	719.4	720.5	726.4	731.1
25°	704.1	705.2	705.2	711.1	715.8
27.5°	688.7	687.6	689.9	694.6	700.5
30°	671.1	671.1	672.3	678.2	684.0
32.5°	653.4	652.2	653.4	659.3	665.2
35°	632.2	632.2	632.2	639.3	645.2
37.5°	611.0	609.9	609.9	616.9	625.2
40°	587.5	586.3	586.3	594.6	600.4
42.5°	565.1	563.9	563.9	571.0	579.3
45°	541.6	538.0	538.0	546.3	554.5
47.5°	514.5	512.1	513.3	520.4	528.6
50°	488.6	485.1	483.9	492.1	500.4
52.5°	460.3	459.2	455.6	462.7	472.1
55°	430.9	429.7	426.2	433.3	442.7
57.5°	402.7	399.1	395.6	401.5	412.1
60°	370.9	367.3	362.6	370.9	380.3
62.5°	339.1	334.4	330.8	337.9	348.5
65°	304.9	301.4	296.7	306.1	316.7
67.5°	273.1	269.6	263.7	272.0	279.0
70°	237.8	233.1	230.8	231.9	234.3
72.5°	203.7	201.3	197.8	188.4	186.0
75°	169.5	166.0	158.9	141.3	135.4
77.5°	135.4	133.0	120.1	104.8	104.8
80°	100.1	98.9	83.6	85.9	87.1
82.5°	68.3	65.9	61.2	60.0	60.0
85°	36.5	34.1	35.3	34.1	34.1
87.5°	14.1	14.1	15.3	14.1	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)