

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: P238836

Luminaire Tested: **22EN-LD2-25-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238836
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: 22EN-LD2-25-UNV-L950-CD1-U
Description: METALUX ENCOUNTER 2X2 LED TROFFER
STANDARD OPTION
Light Source: (168)5000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2528.1 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

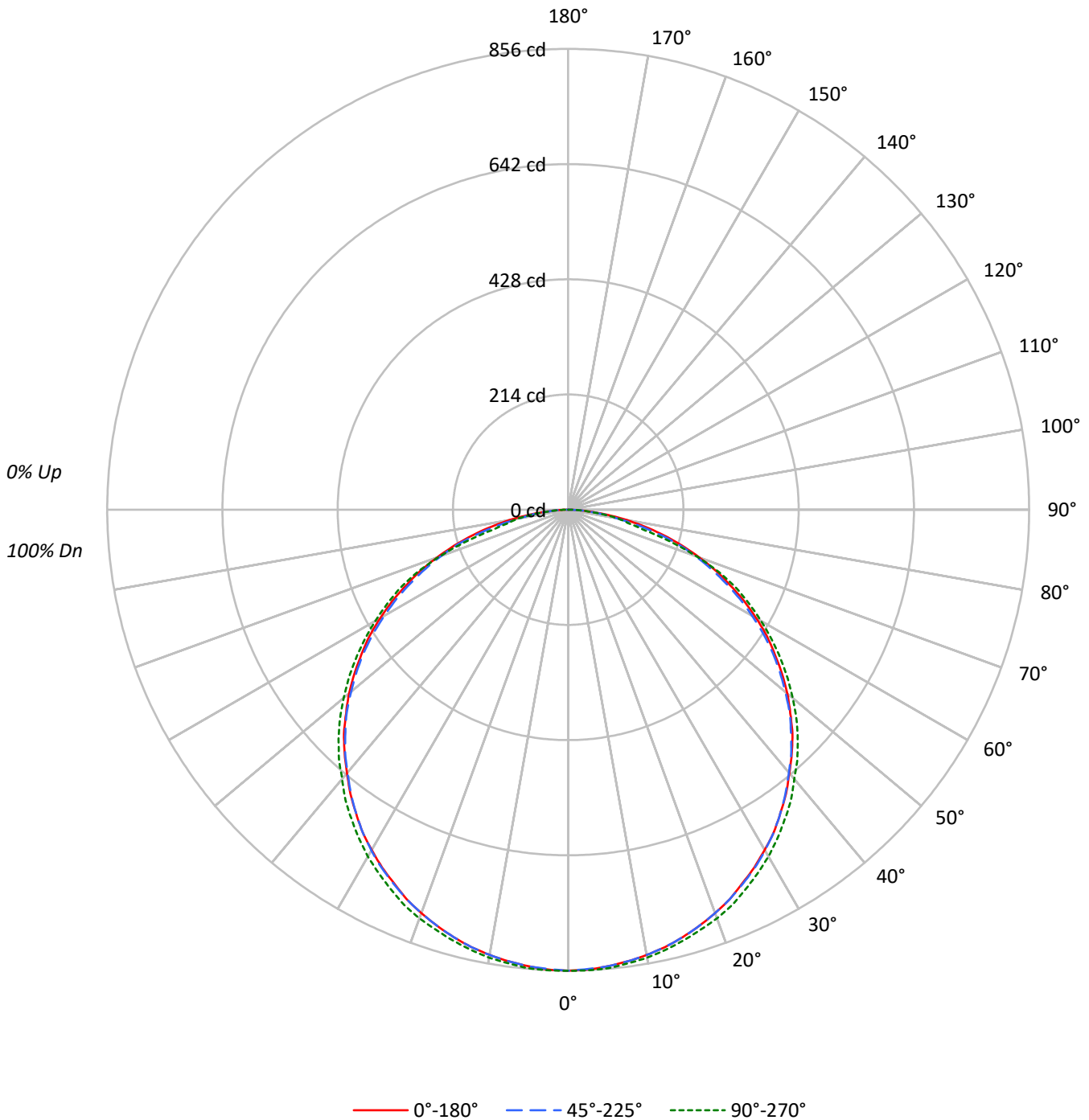
Input Watts (W): 20
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	94	97	94	91	93	91	88	90	88	86	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	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42					42			
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37					37			
7	64	51	42	36	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°	2743	2743	2743
5°	2737	2737	2749
10°	2731	2731	2748
15°	2725	2725	2746
20°	2718	2718	2753
25°	2705	2710	2750
30°	2698	2703	2751
35°	2687	2687	2743
40°	2671	2665	2729
45°	2667	2649	2731
50°	2647	2621	2711
55°	2616	2587	2687
60°	2582	2525	2648
65°	2513	2445	2610
70°	2421	2349	2385
75°	2280	2138	1821
80°	2007	1676	1746
85°	1459	1411	1363



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.0	3.2
10°-20°	232.5	9.2
20°-30°	354.9	14.0
30°-40°	432.3	17.1
40°-50°	455.0	18.0
50°-60°	418.9	16.6
60°-70°	326.1	12.9
70°-80°	181.0	7.2
80°-90°	46.5	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°	668.4	26.4
0°-40°	1100.6	43.5
0°-60°	1974.5	78.1
0°-90°	2528.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2528.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	856	856	856	856	856	
5°	851	851	851	854	855	81
15°	822	822	822	826	828	232
25°	766	767	767	773	778	353
35°	687	687	687	695	702	430
45°	589	585	585	594	603	453
55°	468	467	463	471	481	419
65°	332	328	323	333	344	329
75°	184	180	173	154	147	194
85°	40	37	38	37	37	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	856.4	856.4	856.4	856.4	856.4
2.5°	855.1	853.9	853.9	856.4	856.4
5°	851.3	851.3	851.3	853.9	855.1
7.5°	846.2	846.2	846.2	850.0	850.0
10°	839.8	838.5	839.8	842.3	844.9
12.5°	832.1	830.8	832.1	834.7	837.2
15°	821.9	821.9	821.9	825.7	828.3
17.5°	810.3	809.0	810.3	814.2	818.0
20°	797.5	797.5	797.5	802.6	807.8
22.5°	783.4	782.2	783.4	789.8	795.0
25°	765.5	766.8	766.8	773.2	778.3
27.5°	748.9	747.6	750.2	755.3	761.7
30°	729.7	729.7	731.0	737.4	743.8
32.5°	710.5	709.2	710.5	716.9	723.3
35°	687.4	687.4	687.4	695.1	701.5
37.5°	664.4	663.1	663.1	670.8	679.8
40°	638.8	637.5	637.5	646.5	652.9
42.5°	614.5	613.2	613.2	620.9	629.8
45°	588.9	585.0	585.0	594.0	602.9
47.5°	559.4	556.9	558.1	565.8	574.8
50°	531.3	527.4	526.1	535.1	544.1
52.5°	500.5	499.3	495.4	503.1	513.3
55°	468.5	467.3	463.4	471.1	481.3
57.5°	437.8	434.0	430.1	436.5	448.0
60°	403.2	399.4	394.3	403.2	413.5
62.5°	368.7	363.6	359.7	367.4	378.9
65°	331.6	327.7	322.6	332.8	344.4
67.5°	297.0	293.2	286.8	295.7	303.4
70°	258.6	253.5	250.9	252.2	254.7
72.5°	221.5	218.9	215.1	204.8	202.3
75°	184.3	180.5	172.8	153.6	147.2
77.5°	147.2	144.7	130.6	113.9	113.9
80°	108.8	107.5	90.9	93.5	94.7
82.5°	74.2	71.7	66.6	65.3	65.3
85°	39.7	37.1	38.4	37.1	37.1
87.5°	15.4	15.4	16.6	15.4	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)