

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: P239002

Luminaire Tested: **24ENA-LD2-34-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239002
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1708-234-34)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24ENA-LD2-34-UNV-L935-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3030.6 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1.67' x L: 3.83' x H: 0')
CIE Type: Direct

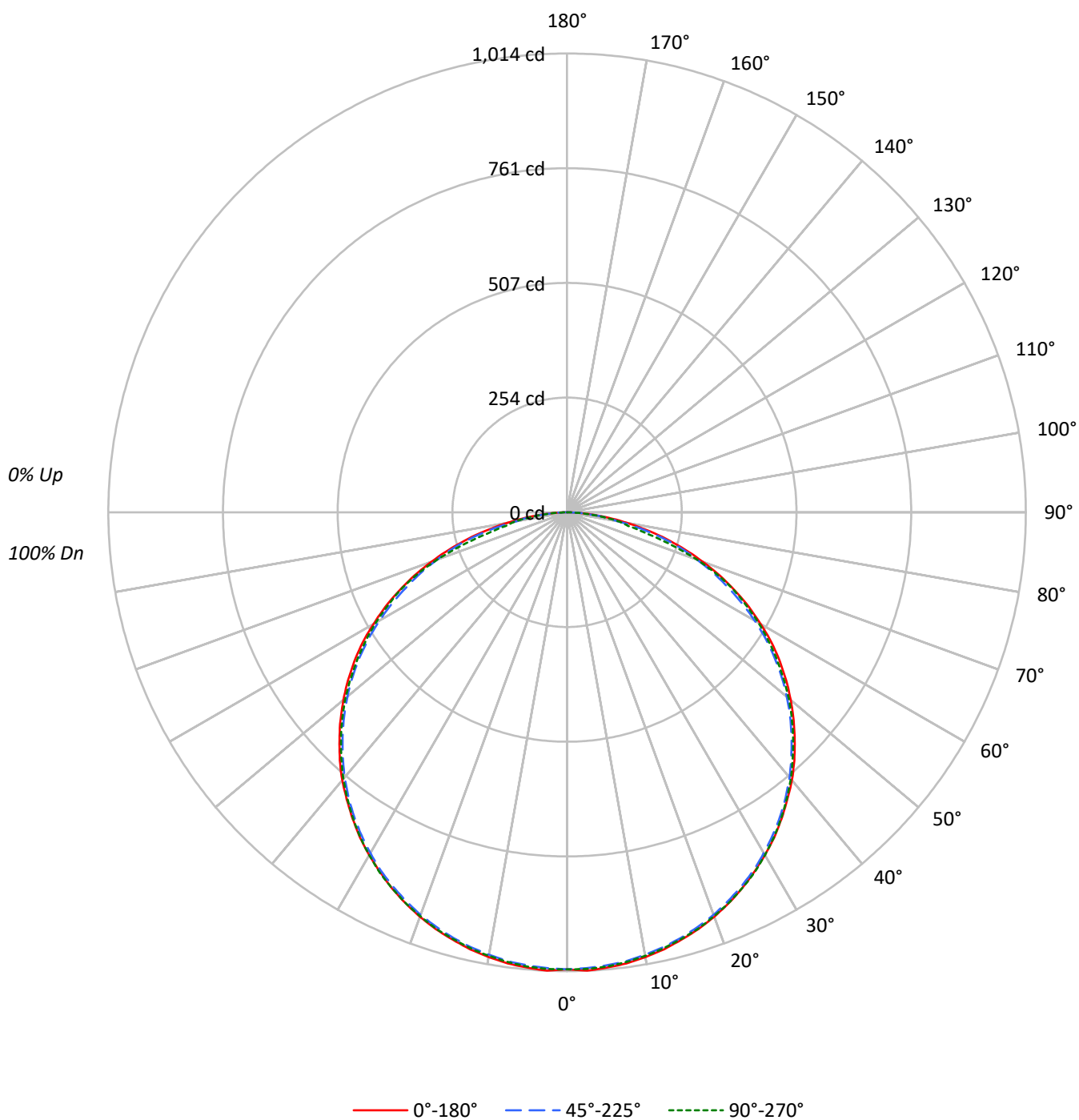
Input Watts (W): 28.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	104	99	95	106	101	97	94		97	94	91		93	90	88		90	87	85
2	98	90	83	77	96	88	82	76		84	79	74		81	77	73		78	74	71
3	90	79	70	64	87	77	69	63		74	67	62		71	66	61		69	64	60
4	82	70	61	54	79	68	60	53		66	58	53		63	57	52		61	56	51
5	75	62	53	46	73	61	52	46		59	51	45		57	50	45		55	49	44
6	69	56	47	40	67	55	46	40		53	45	40		51	44	39		50	44	39
7	64	50	42	35	62	50	41	35		48	40	35		47	40	35		45	39	34
8	60	46	37	31	58	45	37	31		44	36	31		43	36	31		41	35	31
9	56	42	34	28	54	42	34	28		40	33	28		39	33	28		38	32	28
10	52	39	31	26	51	38	31	25		37	30	25		36	30	25		35	29	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1702	1702	1702
5°	1708	1700	1704
10°	1707	1699	1703
15°	1705	1698	1702
20°	1705	1697	1703
25°	1703	1695	1703
30°	1701	1691	1701
35°	1700	1688	1697
40°	1701	1682	1692
45°	1696	1672	1684
50°	1691	1661	1676
55°	1685	1644	1661
60°	1664	1613	1647
65°	1631	1563	1621
70°	1572	1506	1503
75°	1480	1414	1195
80°	1302	1106	1136
85°	1028	967	893



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.7	3.2
10°-20°	275.1	9.1
20°-30°	421.0	13.9
30°-40°	514.6	17.0
40°-50°	543.8	17.9
50°-60°	503.8	16.6
60°-70°	394.7	13.0
70°-80°	223.2	7.4
80°-90°	58.8	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°	791.8	26.1
0°-40°	1306.4	43.1
0°-60°	2354.0	77.7
0°-90°	3030.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3030.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1010	1010	1010	1010	1010	
5°	1010	1007	1005	1004	1008	96
15°	978	974	973	973	976	276
25°	916	912	912	912	916	422
35°	826	823	821	821	825	517
45°	712	707	702	702	707	549
55°	574	567	560	561	566	512
65°	409	402	392	397	406	404
75°	227	221	217	194	184	239
85°	53	50	50	48	46	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1010.0	1010.0	1010.0	1010.0	1010.0
2.5°	1013.8	1009.4	1008.1	1006.8	1010.0
5°	1010.0	1006.8	1004.9	1004.3	1007.5
7.5°	1005.6	1001.8	1000.5	999.2	1002.4
10°	998.0	994.2	992.9	992.3	995.4
12.5°	989.1	984.7	984.0	983.4	986.6
15°	977.7	973.9	973.3	972.6	975.8
17.5°	965.7	961.9	960.6	960.0	964.4
20°	951.1	947.3	946.7	946.0	949.8
22.5°	934.6	930.8	929.6	930.2	934.0
25°	916.3	912.5	911.8	911.8	916.3
27.5°	896.0	892.2	892.2	892.2	897.3
30°	874.5	871.3	869.4	870.0	874.5
32.5°	852.3	847.2	846.0	846.6	851.0
35°	826.4	822.6	820.7	820.7	825.1
37.5°	799.8	796.0	793.4	793.4	797.9
40°	773.2	767.5	764.9	763.7	769.4
42.5°	743.4	739.0	733.3	733.3	738.3
45°	711.7	706.7	701.6	701.6	706.7
47.5°	679.4	674.4	668.7	668.7	673.7
50°	645.3	640.2	633.9	633.9	639.6
52.5°	610.4	604.7	597.8	597.1	602.8
55°	573.7	567.4	559.8	561.0	565.5
57.5°	536.3	528.1	520.5	520.5	527.5
60°	493.9	486.9	478.7	480.0	488.8
62.5°	453.4	444.5	436.3	439.5	447.1
65°	409.1	401.5	392.0	397.0	406.5
67.5°	365.4	357.1	349.5	355.9	360.3
70°	319.1	311.5	305.8	305.8	305.2
72.5°	272.9	266.0	264.7	252.7	245.1
75°	227.3	221.0	217.2	193.8	183.6
77.5°	179.8	177.9	165.9	141.2	138.0
80°	134.2	135.5	114.0	114.6	117.1
82.5°	92.5	90.6	85.5	81.7	80.4
85°	53.2	50.0	50.0	47.5	46.2
87.5°	17.7	19.6	19.6	19.6	20.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)