

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: P238945

Luminaire Tested: **24ENA-LD2-67-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238945
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-LD2-67-UNV-L830-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (308)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6365.8 lumens
Efficiency: N/A
Efficacy: 113.5 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

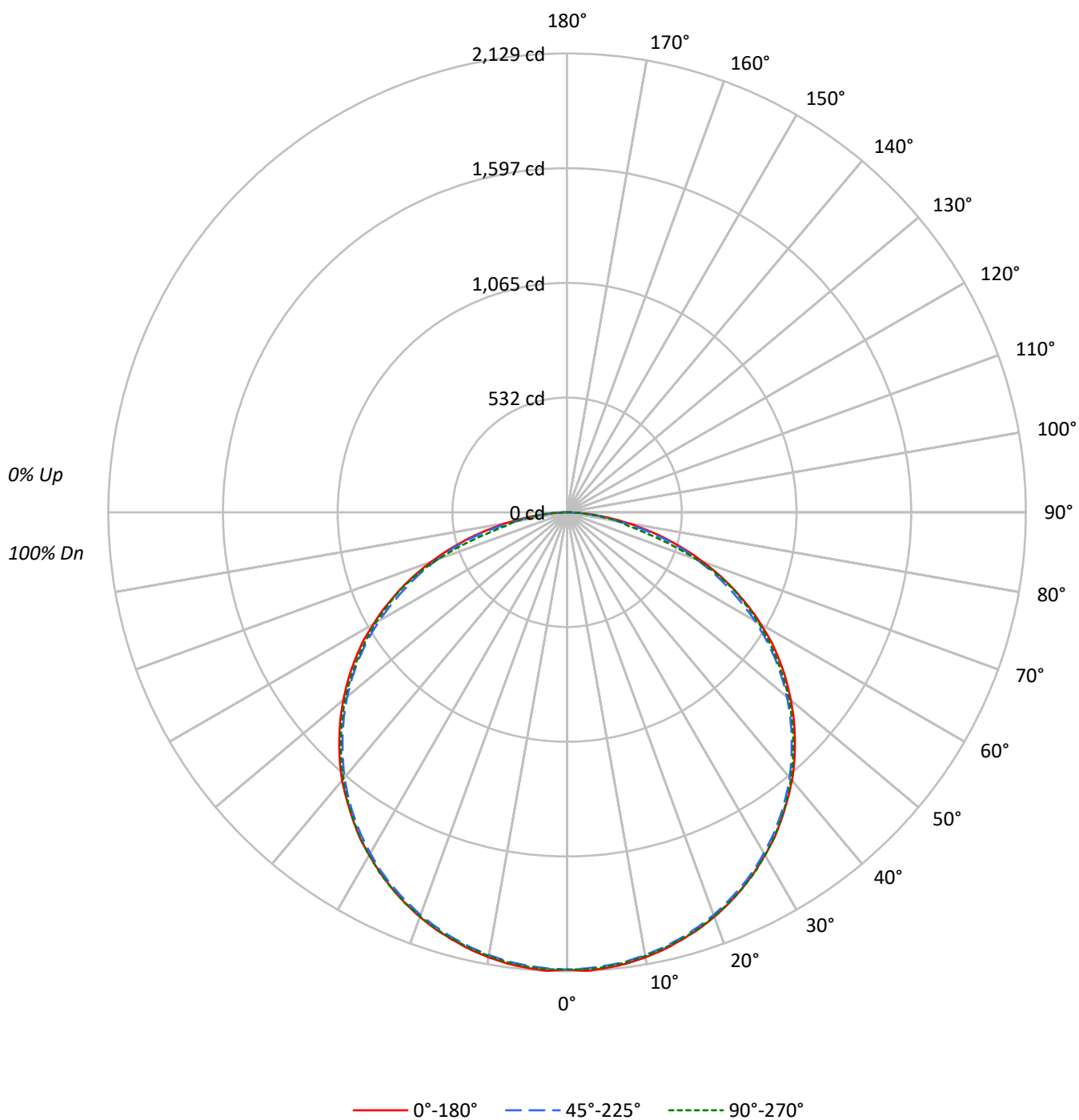
Input Watts (W): 56.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3574	3574	3574
5°	3588	3570	3579
10°	3586	3568	3577
15°	3582	3566	3575
20°	3582	3565	3577
25°	3578	3560	3578
30°	3573	3553	3573
35°	3570	3545	3565
40°	3572	3534	3554
45°	3562	3511	3537
50°	3552	3490	3521
55°	3539	3454	3489
60°	3496	3388	3460
65°	3425	3282	3404
70°	3302	3164	3158
75°	3108	2970	2511
80°	2736	2323	2388
85°	2159	2032	1877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.9	3.2
10°-20°	577.9	9.1
20°-30°	884.3	13.9
30°-40°	1080.9	17.0
40°-50°	1142.2	17.9
50°-60°	1058.3	16.6
60°-70°	829.1	13.0
70°-80°	468.7	7.4
80°-90°	123.4	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°	1663.1	26.1
0°-40°	2744.0	43.1
0°-60°	4944.5	77.7
0°-90°	6365.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6365.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2122	2122	2122	2122	2122	
5°	2122	2115	2111	2110	2116	202
15°	2054	2046	2044	2043	2050	580
25°	1925	1917	1915	1915	1925	887
35°	1736	1728	1724	1724	1733	1087
45°	1495	1484	1474	1474	1484	1154
55°	1205	1192	1176	1178	1188	1076
65°	859	843	823	834	854	850
75°	478	464	456	407	386	502
85°	112	105	105	100	97	132
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2121.5	2121.5	2121.5	2121.5	2121.5
2.5°	2129.4	2120.1	2117.5	2114.8	2121.5
5°	2121.5	2114.8	2110.8	2109.5	2116.1
7.5°	2112.1	2104.2	2101.5	2098.8	2105.5
10°	2096.2	2088.2	2085.5	2084.2	2090.9
12.5°	2077.6	2068.2	2066.9	2065.6	2072.2
15°	2053.6	2045.6	2044.3	2043.0	2049.6
17.5°	2028.3	2020.4	2017.7	2016.4	2025.7
20°	1997.8	1989.8	1988.4	1987.1	1995.1
22.5°	1963.2	1955.2	1952.5	1953.9	1961.8
25°	1924.6	1916.6	1915.3	1915.3	1924.6
27.5°	1882.0	1874.1	1874.1	1874.1	1884.7
30°	1836.8	1830.2	1826.2	1827.5	1836.8
32.5°	1790.3	1779.6	1777.0	1778.3	1787.6
35°	1735.7	1727.8	1723.8	1723.8	1733.1
37.5°	1679.9	1671.9	1666.6	1666.6	1675.9
40°	1624.0	1612.0	1606.7	1604.1	1616.0
42.5°	1561.5	1552.2	1540.2	1540.2	1550.9
45°	1495.0	1484.4	1473.7	1473.7	1484.4
47.5°	1427.2	1416.5	1404.5	1404.5	1415.2
50°	1355.3	1344.7	1331.4	1331.4	1343.4
52.5°	1282.2	1270.2	1255.6	1254.2	1266.2
55°	1205.0	1191.7	1175.8	1178.4	1187.7
57.5°	1126.6	1109.3	1093.3	1093.3	1107.9
60°	1037.4	1022.8	1005.5	1008.2	1026.8
62.5°	952.3	933.7	916.4	923.1	939.0
65°	859.2	843.3	823.3	833.9	853.9
67.5°	767.4	750.2	734.2	747.5	756.8
70°	670.4	654.4	642.4	642.4	641.1
72.5°	573.3	558.6	556.0	530.7	514.7
75°	477.5	464.2	456.2	407.0	385.7
77.5°	377.7	373.7	348.5	296.6	290.0
80°	282.0	284.6	239.4	240.7	246.1
82.5°	194.2	190.2	179.6	171.6	168.9
85°	111.7	105.1	105.1	99.8	97.1
87.5°	37.2	41.2	41.2	41.2	42.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)