

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: P239036

Luminaire Tested: **24ENA-LD2-74-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239036
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-LD2-74-UNV-L950-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (308)5000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6965.4 lumens
Efficiency: N/A
Efficacy: 109.5 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

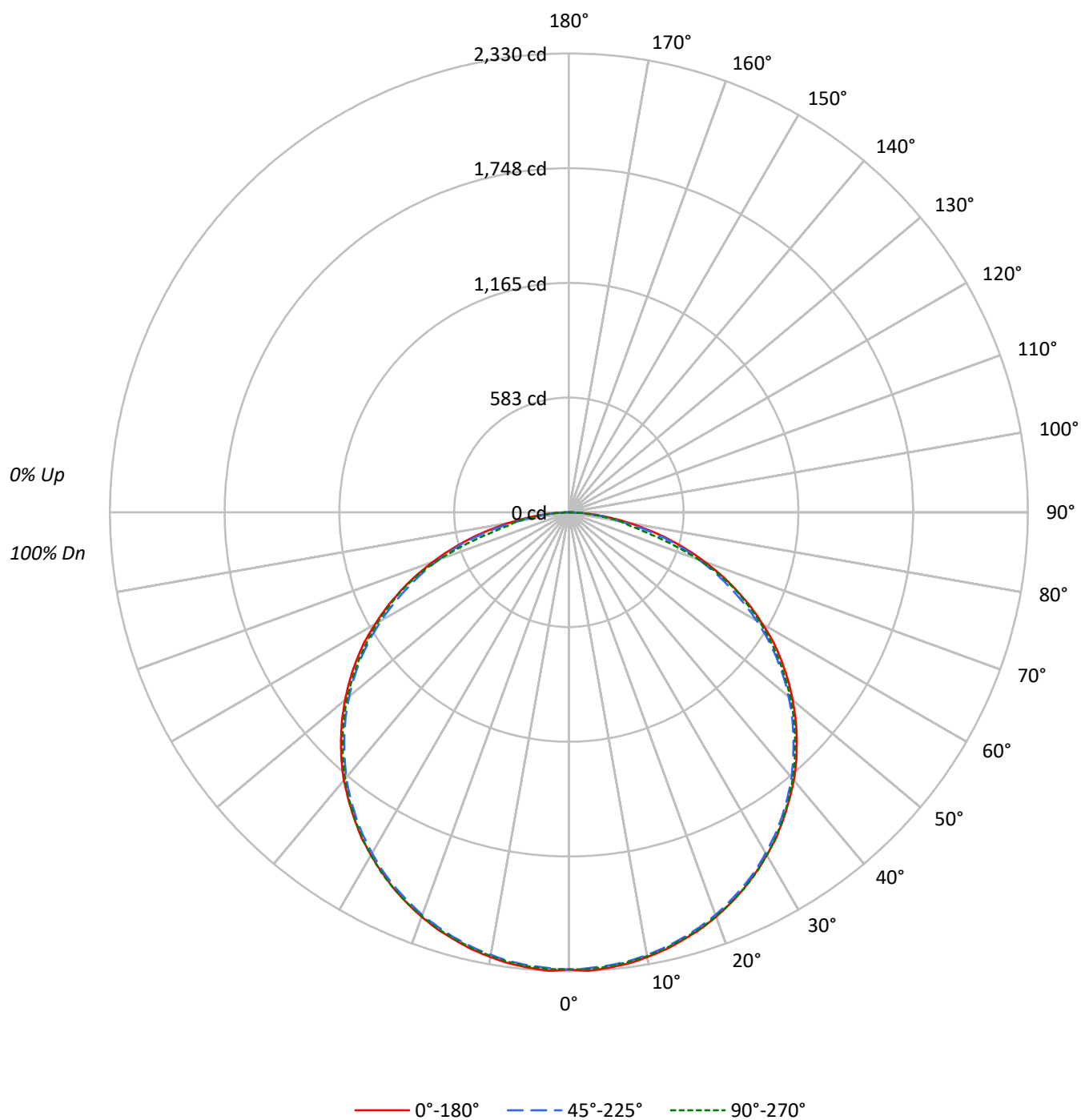
Input Watts (W): 63.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3911	3911	3911
5°	3926	3906	3916
10°	3924	3904	3914
15°	3919	3902	3912
20°	3919	3901	3914
25°	3915	3896	3915
30°	3910	3887	3910
35°	3906	3879	3900
40°	3908	3867	3889
45°	3898	3842	3870
50°	3887	3818	3853
55°	3873	3779	3817
60°	3825	3707	3786
65°	3748	3591	3725
70°	3613	3462	3456
75°	3401	3250	2748
80°	2993	2542	2612
85°	2362	2223	2053



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.9	3.2
10°-20°	632.3	9.1
20°-30°	967.6	13.9
30°-40°	1182.7	17.0
40°-50°	1249.8	17.9
50°-60°	1158.0	16.6
60°-70°	907.2	13.0
70°-80°	512.9	7.4
80°-90°	135.1	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°	1819.8	26.1
0°-40°	3002.5	43.1
0°-60°	5410.3	77.7
0°-90°	6965.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6965.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2321	2321	2321	2321	2321	
5°	2321	2314	2310	2308	2316	221
15°	2247	2238	2237	2235	2243	635
25°	2106	2097	2096	2096	2106	971
35°	1899	1890	1886	1886	1896	1189
45°	1636	1624	1612	1612	1624	1262
55°	1318	1304	1286	1289	1300	1178
65°	940	923	901	912	934	930
75°	522	508	499	445	422	550
85°	122	115	115	109	106	144
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2321.3	2321.3	2321.3	2321.3	2321.3
2.5°	2330.0	2319.8	2316.9	2314.0	2321.3
5°	2321.3	2314.0	2309.6	2308.2	2315.5
7.5°	2311.1	2302.4	2299.5	2296.5	2303.8
10°	2293.6	2284.9	2282.0	2280.5	2287.8
12.5°	2273.3	2263.1	2261.6	2260.2	2267.4
15°	2247.1	2238.3	2236.9	2235.4	2242.7
17.5°	2219.4	2210.7	2207.8	2206.3	2216.5
20°	2185.9	2177.2	2175.8	2174.3	2183.0
22.5°	2148.1	2139.4	2136.5	2137.9	2146.6
25°	2105.9	2097.2	2095.7	2095.7	2105.9
27.5°	2059.3	2050.6	2050.6	2050.6	2062.2
30°	2009.8	2002.6	1998.2	1999.7	2009.8
32.5°	1958.9	1947.3	1944.4	1945.8	1956.0
35°	1899.2	1890.5	1886.1	1886.1	1896.3
37.5°	1838.1	1829.4	1823.6	1823.6	1833.7
40°	1777.0	1763.9	1758.1	1755.2	1768.3
42.5°	1708.6	1698.4	1685.3	1685.3	1696.9
45°	1635.8	1624.2	1612.5	1612.5	1624.2
47.5°	1561.6	1550.0	1536.9	1536.9	1548.5
50°	1483.0	1471.4	1456.8	1456.8	1469.9
52.5°	1403.0	1389.9	1373.9	1372.4	1385.5
55°	1318.5	1304.0	1286.5	1289.4	1299.6
57.5°	1232.7	1213.8	1196.3	1196.3	1212.3
60°	1135.2	1119.2	1100.2	1103.2	1123.5
62.5°	1042.0	1021.7	1002.7	1010.0	1027.5
65°	940.2	922.7	900.9	912.5	934.3
67.5°	839.7	820.8	803.4	817.9	828.1
70°	733.5	716.0	702.9	702.9	701.5
72.5°	627.3	611.2	608.3	580.7	563.2
75°	522.5	507.9	499.2	445.3	422.1
77.5°	413.3	409.0	381.3	324.5	317.3
80°	308.5	311.4	262.0	263.4	269.2
82.5°	212.5	208.1	196.5	187.7	184.8
85°	122.2	115.0	115.0	109.2	106.2
87.5°	40.7	45.1	45.1	45.1	46.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)