

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: P239035

Luminaire Tested: **24ENA-LD2-74-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239035
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-L940-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (308)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6572.3 lumens
Efficiency: N/A
Efficacy: 103.3 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

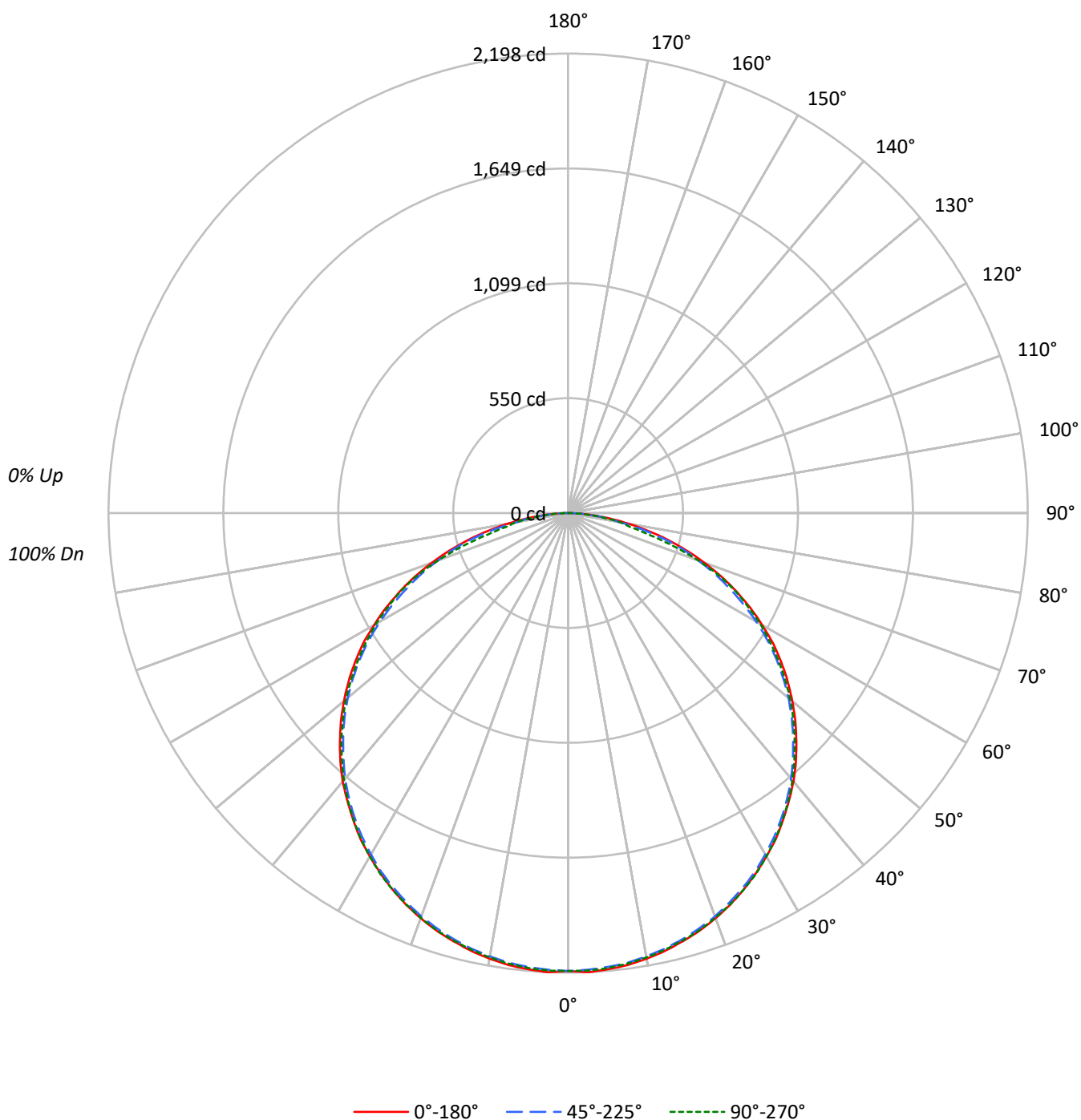
Input Watts (W): 63.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10	50	30	10
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	97	94	97	94	91	93	90	88	90	87	85	83		
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69		
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58		
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49		
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42		
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37		
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32		
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29		
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26		
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3690	3690	3690
5°	3704	3686	3695
10°	3702	3684	3693
15°	3698	3681	3691
20°	3698	3681	3693
25°	3694	3676	3694
30°	3689	3668	3689
35°	3686	3660	3680
40°	3688	3648	3670
45°	3678	3625	3651
50°	3668	3603	3635
55°	3654	3566	3602
60°	3609	3498	3572
65°	3536	3389	3515
70°	3409	3267	3261
75°	3209	3066	2592
80°	2824	2398	2464
85°	2231	2097	1937



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.5	3.2
10°-20°	596.7	9.1
20°-30°	913.0	13.9
30°-40°	1115.9	17.0
40°-50°	1179.2	17.9
50°-60°	1092.6	16.6
60°-70°	856.0	13.0
70°-80°	484.0	7.4
80°-90°	127.4	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°	1717.1	26.1
0°-40°	2833.0	43.1
0°-60°	5104.9	77.7
0°-90°	6572.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6572.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2190	2190	2190	2190	2190	
5°	2190	2183	2179	2178	2185	208
15°	2120	2112	2111	2109	2116	599
25°	1987	1979	1977	1977	1987	916
35°	1792	1784	1780	1780	1789	1122
45°	1544	1532	1522	1522	1532	1191
55°	1244	1230	1214	1217	1226	1111
65°	887	871	850	861	882	877
75°	493	479	471	420	398	519
85°	115	108	108	103	100	136
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2190.3	2190.3	2190.3	2190.3	2190.3
2.5°	2198.5	2188.9	2186.2	2183.4	2190.3
5°	2190.3	2183.4	2179.3	2177.9	2184.8
7.5°	2180.7	2172.4	2169.7	2166.9	2173.8
10°	2164.2	2155.9	2153.2	2151.8	2158.7
12.5°	2145.0	2135.3	2134.0	2132.6	2139.5
15°	2120.2	2112.0	2110.6	2109.3	2116.1
17.5°	2094.2	2085.9	2083.2	2081.8	2091.4
20°	2062.6	2054.3	2053.0	2051.6	2059.8
22.5°	2026.9	2018.6	2015.9	2017.3	2025.5
25°	1987.0	1978.8	1977.4	1977.4	1987.0
27.5°	1943.1	1934.9	1934.9	1934.9	1945.8
30°	1896.4	1889.5	1885.4	1886.8	1896.4
32.5°	1848.3	1837.4	1834.6	1836.0	1845.6
35°	1792.0	1783.8	1779.7	1779.7	1789.3
37.5°	1734.4	1726.1	1720.6	1720.6	1730.3
40°	1676.7	1664.3	1658.8	1656.1	1668.5
42.5°	1612.2	1602.5	1590.2	1590.2	1601.2
45°	1543.5	1532.5	1521.5	1521.5	1532.5
47.5°	1473.5	1462.5	1450.1	1450.1	1461.1
50°	1399.3	1388.3	1374.6	1374.6	1386.9
52.5°	1323.8	1311.4	1296.3	1294.9	1307.3
55°	1244.1	1230.4	1213.9	1216.7	1226.3
57.5°	1163.1	1145.3	1128.8	1128.8	1143.9
60°	1071.1	1056.0	1038.2	1040.9	1060.1
62.5°	983.2	964.0	946.1	953.0	969.5
65°	887.1	870.6	850.0	861.0	881.6
67.5°	792.3	774.5	758.0	771.7	781.4
70°	692.1	675.6	663.3	663.3	661.9
72.5°	591.9	576.8	574.0	547.9	531.4
75°	493.0	479.3	471.0	420.2	398.2
77.5°	390.0	385.9	359.8	306.2	299.4
80°	291.1	293.9	247.2	248.6	254.0
82.5°	200.5	196.4	185.4	177.1	174.4
85°	115.4	108.5	108.5	103.0	100.2
87.5°	38.5	42.6	42.6	42.6	43.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)