

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: P229904

Luminaire Tested: **24RLN-LD5-74-RDP-UNV-L830-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229904
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1707-178-7)
Test Lab: INNOVATION CENTER-G3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-74-RDP-UNV-L830-CD1-SVPD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (252)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5844.0 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

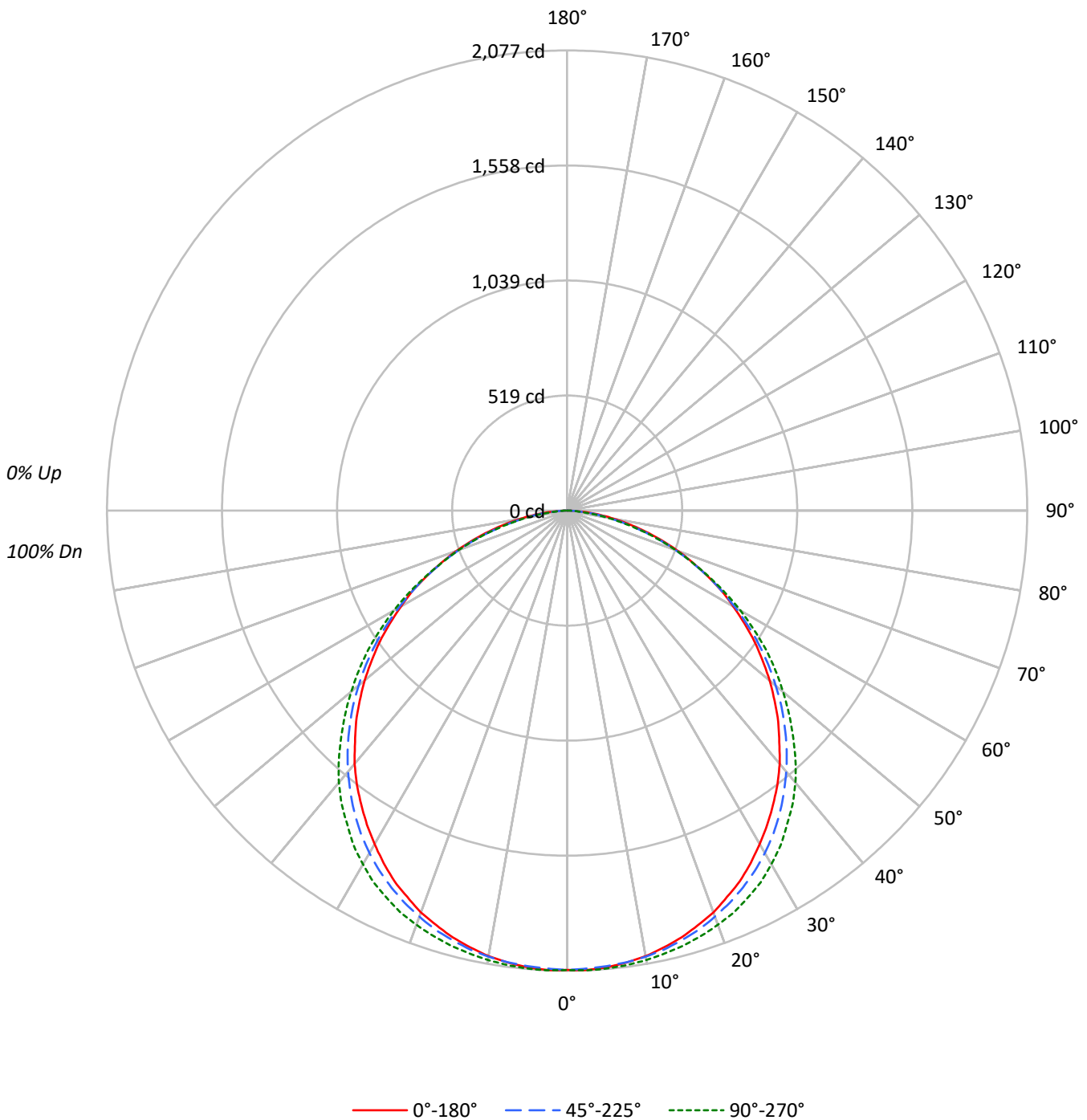
Input Watts (W): 61.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	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
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	91	80	72	66	88	78	71	65	76	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3176	3176	3176
5°	3181	3173	3190
10°	3176	3179	3204
15°	3163	3182	3222
20°	3146	3179	3243
25°	3119	3173	3259
30°	3075	3157	3260
35°	3030	3125	3235
40°	2984	3077	3206
45°	2919	3011	3125
50°	2845	2926	3031
55°	2759	2827	2928
60°	2653	2687	2769
65°	2530	2530	2557
70°	2379	2335	2330
75°	2170	2040	2033
80°	1891	1698	1623
85°	1499	1177	921



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.8	3.4
10°-20°	567.5	9.7
20°-30°	867.1	14.8
30°-40°	1046.1	17.9
40°-50°	1072.2	18.3
50°-60°	944.7	16.2
60°-70°	691.4	11.8
70°-80°	371.6	6.4
80°-90°	86.5	1.5
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°	1631.5	27.9
0°-40°	2677.6	45.8
0°-60°	4694.5	80.3
0°-90°	5844.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5844.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2074	2074	2074	2074	2074	
5°	2069	2066	2064	2070	2075	197
15°	1994	1997	2006	2022	2032	563
25°	1846	1851	1877	1914	1929	849
35°	1620	1629	1672	1718	1730	1014
45°	1347	1346	1390	1430	1442	1038
55°	1033	1027	1059	1083	1096	922
65°	698	686	698	707	705	692
75°	367	350	345	345	344	389
85°	85	76	67	55	52	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2073.5	2073.5	2073.5	2073.5	2073.5
2.5°	2076.0	2072.3	2068.7	2072.3	2077.2
5°	2068.7	2066.2	2063.8	2069.9	2074.8
7.5°	2057.7	2055.3	2056.5	2065.0	2068.7
10°	2041.9	2041.9	2044.3	2054.1	2060.1
12.5°	2019.9	2021.2	2028.5	2040.7	2046.7
15°	1994.4	1996.8	2006.5	2022.4	2032.1
17.5°	1962.7	1968.8	1982.2	2001.7	2012.6
20°	1929.8	1933.4	1950.5	1978.5	1989.5
22.5°	1887.1	1894.5	1916.4	1949.3	1963.9
25°	1845.7	1850.6	1877.4	1914.0	1928.6
27.5°	1793.3	1800.6	1833.5	1876.2	1892.0
30°	1738.5	1747.0	1784.8	1826.2	1843.3
32.5°	1681.3	1692.2	1731.2	1775.1	1793.3
35°	1620.3	1628.9	1671.5	1717.8	1730.0
37.5°	1559.4	1561.9	1606.9	1652.0	1671.5
40°	1492.4	1494.9	1538.7	1581.4	1603.3
42.5°	1416.9	1424.2	1466.8	1508.3	1525.3
45°	1347.4	1346.2	1390.1	1430.3	1442.5
47.5°	1269.5	1271.9	1312.1	1351.1	1358.4
50°	1193.9	1192.7	1228.0	1262.2	1271.9
52.5°	1111.1	1109.9	1145.2	1173.2	1185.4
55°	1033.1	1027.0	1058.7	1083.1	1096.5
57.5°	949.1	940.5	968.5	992.9	999.0
60°	866.2	856.5	877.2	895.5	904.0
62.5°	787.0	774.8	788.2	804.1	805.3
65°	698.1	685.9	698.1	706.6	705.4
67.5°	614.0	600.6	606.7	610.4	609.2
70°	531.2	512.9	521.4	519.0	520.2
72.5°	448.3	433.7	432.5	428.8	432.5
75°	366.7	349.7	344.8	344.8	343.6
77.5°	288.7	271.7	266.8	264.4	260.7
80°	214.4	201.0	192.5	191.3	184.0
82.5°	151.1	134.0	131.6	120.6	113.3
85°	85.3	75.5	67.0	54.8	52.4
87.5°	31.7	28.0	21.9	20.7	19.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)