

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: P229927

Luminaire Tested: **24RLN-LD5-36-RDP-UNV-L930-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229927
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-LD5-36-RDP-UNV-L930-CD1-SVPD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (252)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2482.0 lumens
Efficiency: N/A
Efficacy: 93.7 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

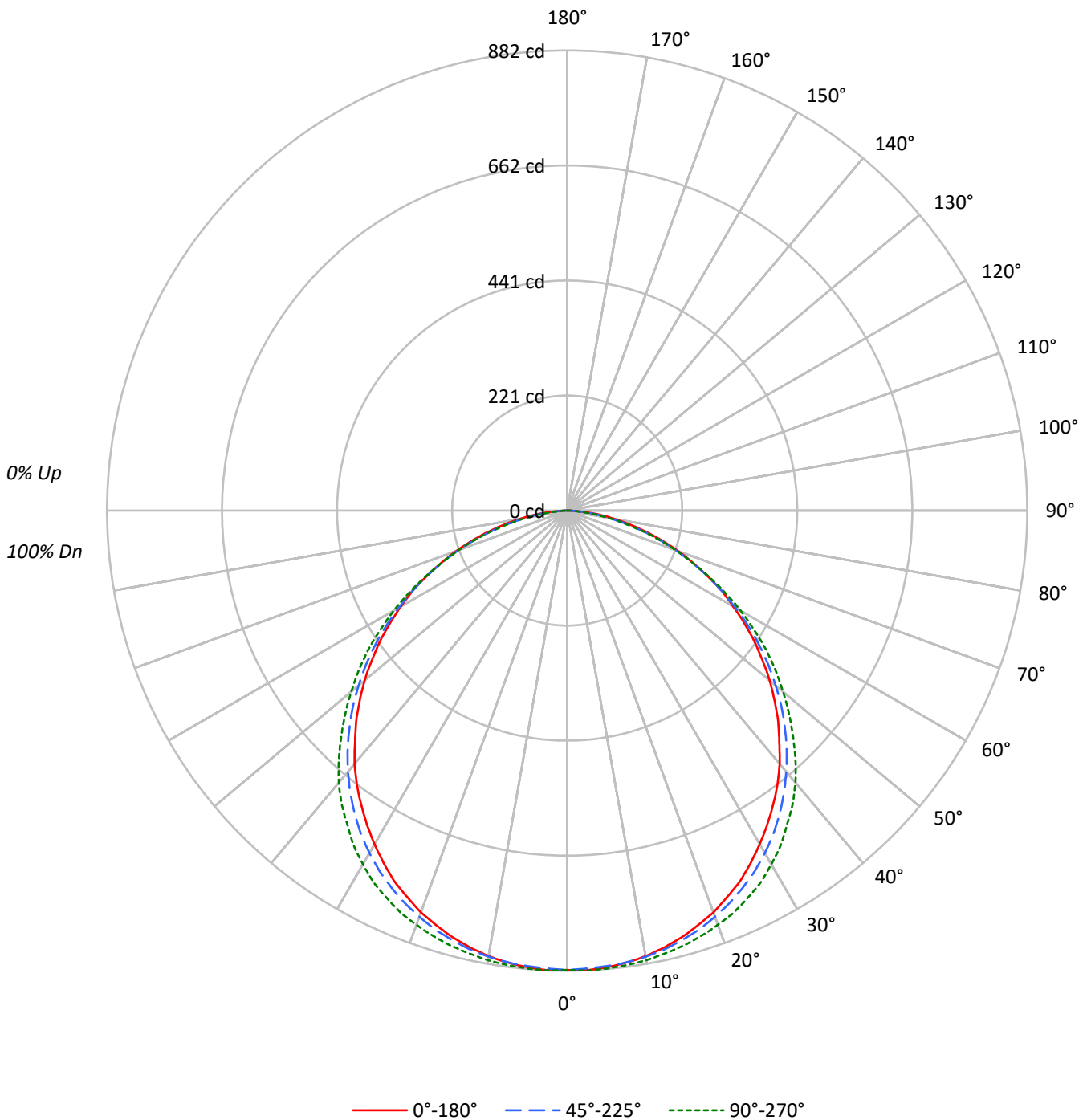
Input Watts (W): 26.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1349	1349	1349
5°	1351	1348	1355
10°	1349	1350	1361
15°	1343	1351	1369
20°	1336	1350	1377
25°	1325	1347	1384
30°	1306	1341	1385
35°	1287	1327	1374
40°	1267	1307	1361
45°	1240	1279	1327
50°	1208	1243	1287
55°	1172	1201	1244
60°	1127	1141	1176
65°	1075	1075	1086
70°	1010	992	989
75°	921	866	863
80°	804	722	689
85°	636	501	390



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.6	3.4
10°-20°	241.0	9.7
20°-30°	368.3	14.8
30°-40°	444.3	17.9
40°-50°	455.4	18.3
50°-60°	401.2	16.2
60°-70°	293.6	11.8
70°-80°	157.8	6.4
80°-90°	36.8	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°	692.9	27.9
0°-40°	1137.2	45.8
0°-60°	1993.8	80.3
0°-90°	2482.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2482.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	881	881	881	881	881	
5°	879	878	876	879	881	84
15°	847	848	852	859	863	239
25°	784	786	797	813	819	361
35°	688	692	710	730	735	431
45°	572	572	590	608	613	441
55°	439	436	450	460	466	392
65°	296	291	296	300	300	294
75°	156	148	146	146	146	165
85°	36	32	28	23	22	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	880.7	880.7	880.7	880.7	880.7
2.5°	881.7	880.1	878.6	880.1	882.2
5°	878.6	877.6	876.5	879.1	881.2
7.5°	873.9	872.9	873.4	877.0	878.6
10°	867.2	867.2	868.2	872.4	875.0
12.5°	857.9	858.4	861.5	866.7	869.3
15°	847.0	848.1	852.2	858.9	863.1
17.5°	833.6	836.2	841.8	850.1	854.8
20°	819.6	821.2	828.4	840.3	845.0
22.5°	801.5	804.6	813.9	827.9	834.1
25°	783.9	786.0	797.3	812.9	819.1
27.5°	761.6	764.8	778.7	796.8	803.6
30°	738.4	742.0	758.0	775.6	782.9
32.5°	714.0	718.7	735.3	753.9	761.6
35°	688.2	691.8	709.9	729.6	734.7
37.5°	662.3	663.3	682.5	701.6	709.9
40°	633.8	634.9	653.5	671.6	680.9
42.5°	601.8	604.9	623.0	640.6	647.8
45°	572.3	571.8	590.4	607.5	612.6
47.5°	539.2	540.2	557.3	573.8	576.9
50°	507.1	506.6	521.6	536.1	540.2
52.5°	471.9	471.4	486.4	498.3	503.5
55°	438.8	436.2	449.6	460.0	465.7
57.5°	403.1	399.5	411.4	421.7	424.3
60°	367.9	363.7	372.5	380.3	383.9
62.5°	334.3	329.1	334.8	341.5	342.0
65°	296.5	291.3	296.5	300.1	299.6
67.5°	260.8	255.1	257.7	259.2	258.7
70°	225.6	217.8	221.5	220.4	220.9
72.5°	190.4	184.2	183.7	182.1	183.7
75°	155.7	148.5	146.4	146.4	145.9
77.5°	122.6	115.4	113.3	112.3	110.7
80°	91.1	85.4	81.8	81.2	78.1
82.5°	64.2	56.9	55.9	51.2	48.1
85°	36.2	32.1	28.5	23.3	22.2
87.5°	13.5	11.9	9.3	8.8	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)