

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: P296240

Luminaire Tested: **24RLN-LD5-36-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296240
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36059-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-36-RDP-UNV-L93050-W2A1-U-4000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2796.0 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

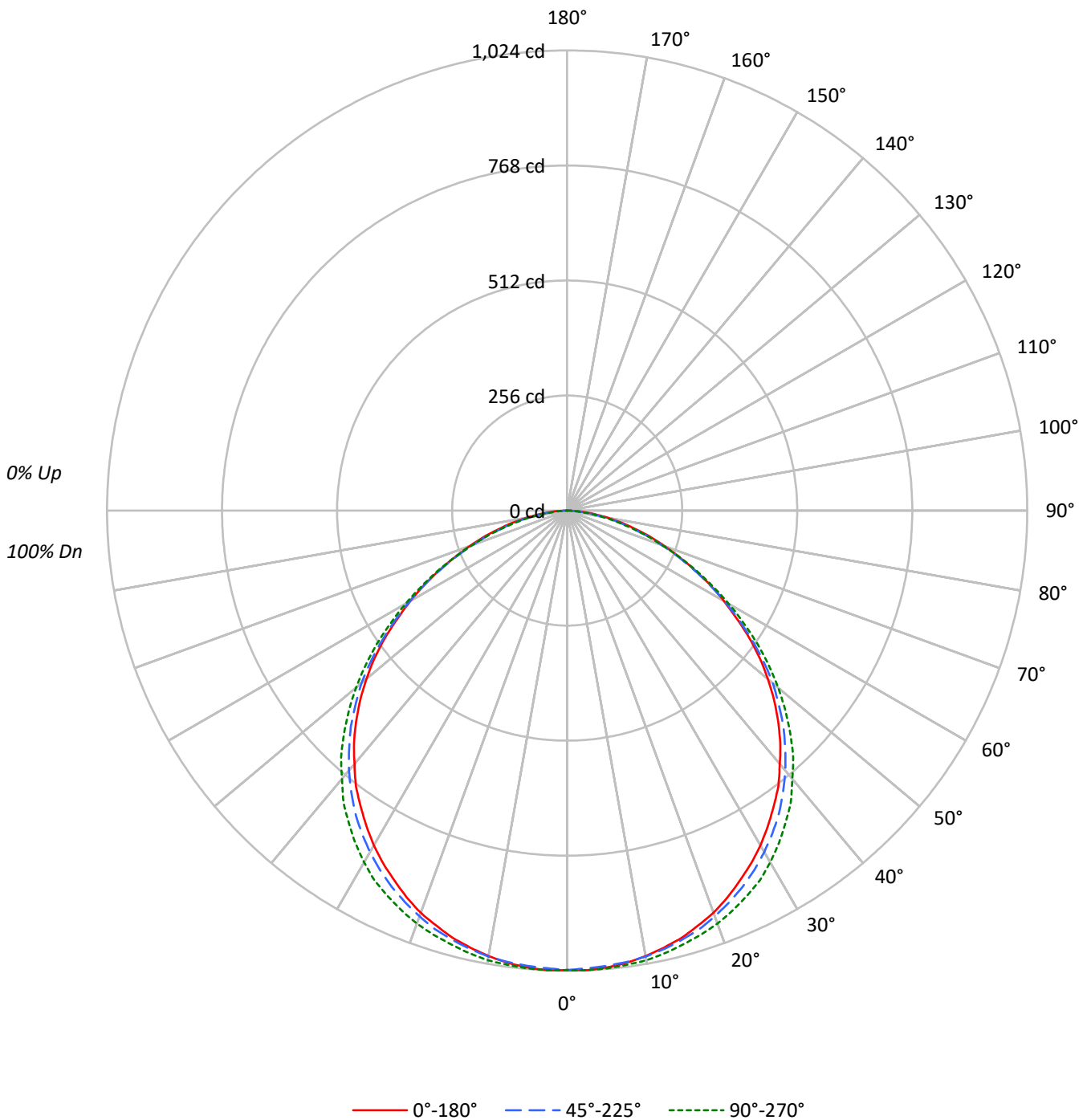
Input Watts (W): 25.854
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1376	1376	1376
5°	1378	1374	1381
10°	1375	1377	1388
15°	1371	1377	1392
20°	1364	1376	1400
25°	1349	1372	1405
30°	1336	1363	1404
35°	1317	1350	1392
40°	1293	1326	1369
45°	1263	1296	1336
50°	1221	1250	1283
55°	1162	1177	1212
60°	1085	1090	1119
65°	996	989	1013
70°	906	880	885
75°	805	761	755
80°	699	625	608
85°	573	442	344



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.0	3.5
10°-20°	279.6	10.0
20°-30°	426.7	15.3
30°-40°	514.5	18.4
40°-50°	524.6	18.8
50°-60°	449.0	16.1
60°-70°	309.3	11.1
70°-80°	158.6	5.7
80°-90°	36.9	1.3
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°	803.3	28.7
0°-40°	1317.7	47.1
0°-60°	2291.3	81.9
0°-90°	2796.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2796.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1022	1022	1022	1022	1022	
5°	1020	1018	1017	1020	1022	97
15°	984	983	989	996	999	278
25°	909	912	924	940	946	419
35°	802	805	822	840	848	502
45°	664	665	681	698	702	512
55°	495	492	502	512	517	442
65°	313	306	311	313	318	311
75°	155	148	146	146	145	167
85°	37	33	29	26	22	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1022.5	1022.5	1022.5	1022.5	1022.5
2.5°	1023.6	1021.4	1019.3	1021.4	1023.6
5°	1020.4	1018.3	1017.2	1020.4	1022.5
7.5°	1015.1	1013.0	1013.0	1017.2	1019.3
10°	1006.6	1005.5	1007.7	1011.9	1016.1
12.5°	996.0	996.0	999.2	1004.5	1008.7
15°	984.3	983.3	988.6	996.0	999.2
17.5°	968.4	969.5	976.9	985.4	989.6
20°	952.5	953.6	961.0	972.7	978.0
22.5°	932.3	934.5	943.0	957.8	963.1
25°	909.0	912.2	923.9	939.8	946.1
27.5°	885.7	888.9	901.6	919.6	928.1
30°	860.2	864.5	877.2	896.3	903.7
32.5°	831.6	834.8	850.7	869.8	877.2
35°	801.9	805.1	822.0	840.1	847.5
37.5°	772.2	772.2	789.2	810.4	817.8
40°	736.1	737.2	755.2	775.4	779.6
42.5°	702.2	702.2	718.1	737.2	744.6
45°	664.0	665.1	681.0	697.9	702.2
47.5°	624.7	624.7	638.5	654.4	658.7
50°	583.4	581.3	597.2	609.9	613.1
52.5°	541.0	537.8	550.5	561.1	565.3
55°	495.3	492.2	501.7	512.3	516.6
57.5°	447.6	443.4	454.0	463.5	465.6
60°	403.1	396.7	405.2	410.5	415.8
62.5°	358.5	351.1	357.5	360.6	364.9
65°	312.9	305.5	310.8	312.9	318.2
67.5°	269.4	264.1	265.2	268.4	270.5
70°	230.2	223.8	223.8	223.8	224.9
72.5°	194.1	184.6	183.5	184.6	184.6
75°	154.9	148.5	146.4	146.4	145.3
77.5°	124.1	115.6	114.6	112.4	110.3
80°	90.2	82.7	80.6	79.6	78.5
82.5°	62.6	56.2	54.1	52.0	48.8
85°	37.1	32.9	28.6	25.5	22.3
87.5°	13.8	12.7	10.6	9.5	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)