

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: P296241

Luminaire Tested: **24RLN-LD5-36-RDP-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296241
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-4500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2845.0 lumens
Efficiency: N/A
Efficacy: 108.5 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

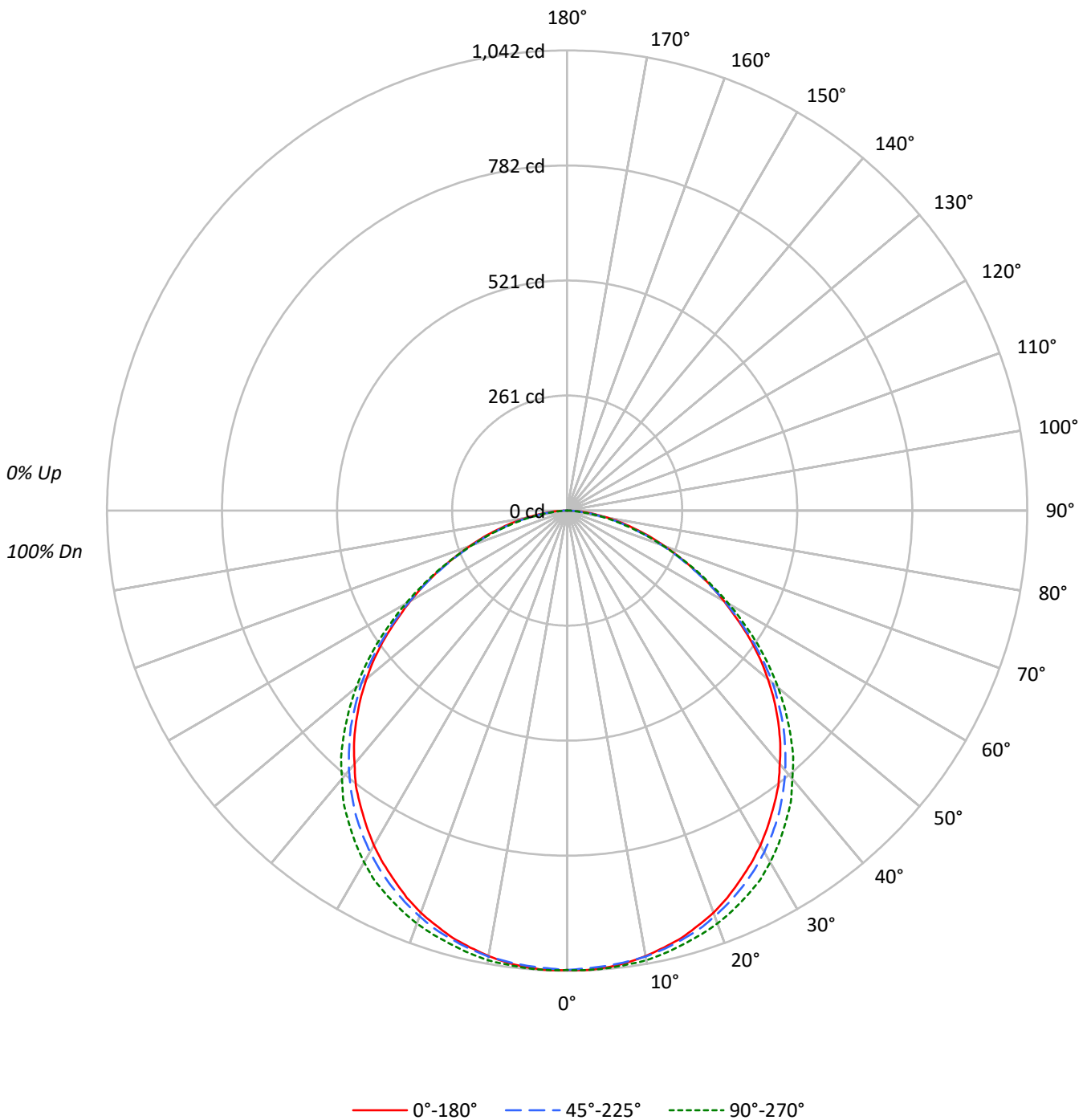
Input Watts (W): 26.226
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1400	1400	1400
5°	1402	1398	1405
10°	1399	1401	1413
15°	1395	1401	1416
20°	1388	1400	1425
25°	1373	1396	1429
30°	1360	1387	1429
35°	1340	1374	1416
40°	1316	1350	1393
45°	1286	1318	1360
50°	1243	1272	1306
55°	1182	1198	1233
60°	1104	1109	1139
65°	1014	1007	1031
70°	921	896	900
75°	819	774	769
80°	711	635	619
85°	584	449	350



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.7	3.5
10°-20°	284.5	10.0
20°-30°	434.2	15.3
30°-40°	523.5	18.4
40°-50°	533.8	18.8
50°-60°	456.8	16.1
60°-70°	314.7	11.1
70°-80°	161.3	5.7
80°-90°	37.5	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°	817.3	28.7
0°-40°	1340.8	47.1
0°-60°	2331.4	81.9
0°-90°	2845.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2845.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1040	1040	1040	1040	1040	
5°	1038	1036	1035	1038	1040	99
15°	1002	1000	1006	1013	1017	282
25°	925	928	940	956	963	427
35°	816	819	836	855	862	510
45°	676	677	693	710	714	521
55°	504	501	510	521	526	450
65°	318	311	316	318	324	316
75°	158	151	149	149	148	170
85°	38	34	29	26	23	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1040.4	1040.4	1040.4	1040.4	1040.4
2.5°	1041.5	1039.3	1037.2	1039.3	1041.5
5°	1038.3	1036.1	1035.0	1038.3	1040.4
7.5°	1032.9	1030.7	1030.7	1035.0	1037.2
10°	1024.2	1023.2	1025.3	1029.6	1034.0
12.5°	1013.4	1013.4	1016.7	1022.1	1026.4
15°	1001.6	1000.5	1005.9	1013.4	1016.7
17.5°	985.4	986.5	994.0	1002.7	1007.0
20°	969.2	970.3	977.8	989.7	995.1
22.5°	948.7	950.8	959.5	974.6	980.0
25°	924.9	928.2	940.1	956.2	962.7
27.5°	901.2	904.4	917.4	935.7	944.4
30°	875.3	879.6	892.6	912.0	919.5
32.5°	846.2	849.4	865.6	885.0	892.6
35°	815.9	819.2	836.4	854.8	862.3
37.5°	785.7	785.7	803.0	824.6	832.1
40°	749.0	750.1	768.4	789.0	793.3
42.5°	714.5	714.5	730.7	750.1	757.7
45°	675.6	676.7	692.9	710.2	714.5
47.5°	635.7	635.7	649.7	665.9	670.2
50°	593.6	591.4	607.6	620.6	623.8
52.5°	550.4	547.2	560.1	570.9	575.3
55°	504.0	500.8	510.5	521.3	525.6
57.5°	455.5	451.1	461.9	471.6	473.8
60°	410.1	403.7	412.3	417.7	423.1
62.5°	364.8	357.2	363.7	367.0	371.3
65°	318.4	310.8	316.2	318.4	323.8
67.5°	274.1	268.7	269.8	273.1	275.2
70°	234.2	227.7	227.7	227.7	228.8
72.5°	197.5	187.8	186.7	187.8	187.8
75°	157.6	151.1	148.9	148.9	147.9
77.5°	126.3	117.6	116.6	114.4	112.2
80°	91.7	84.2	82.0	80.9	79.9
82.5°	63.7	57.2	55.0	52.9	49.6
85°	37.8	33.5	29.1	25.9	22.7
87.5°	14.0	13.0	10.8	9.7	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)