

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: P296259

Luminaire Tested: **24RLN-LD5-55-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296259  
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-LD5-55-RDP-UNV-L93050-W2A1-U-3500K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3911.0 lumens  
Efficiency: N/A  
Efficacy: 100.1 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

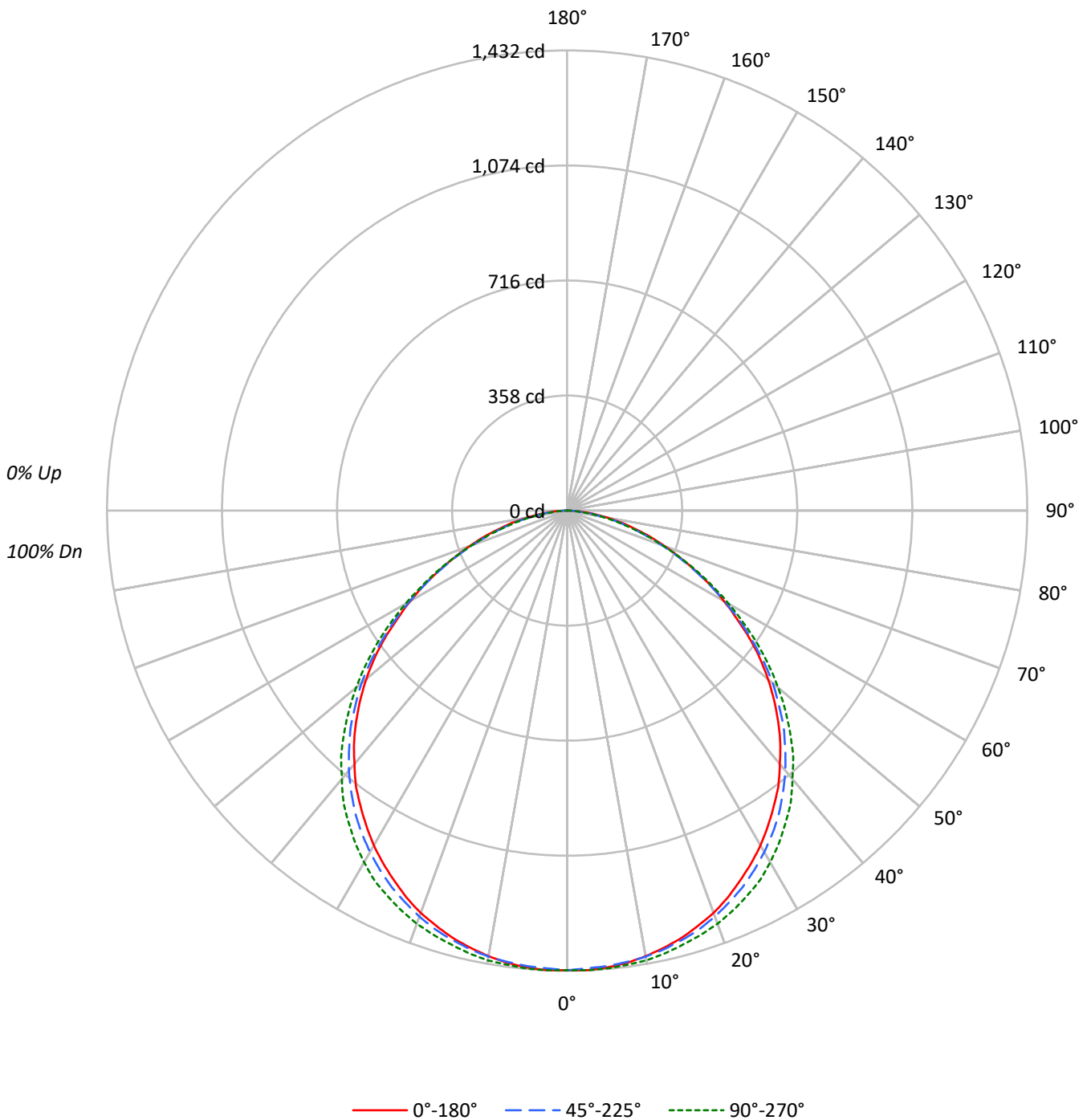
Input Watts (W): 39.06  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1924	1924	1924
5°	1928	1922	1932
10°	1924	1926	1942
15°	1918	1926	1947
20°	1908	1925	1959
25°	1888	1919	1965
30°	1869	1906	1964
35°	1842	1889	1947
40°	1809	1855	1915
45°	1767	1812	1869
50°	1708	1748	1795
55°	1625	1646	1695
60°	1517	1525	1565
65°	1394	1384	1417
70°	1267	1232	1237
75°	1126	1064	1057
80°	977	874	851
85°	801	619	482



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.6	3.5
10°-20°	391.0	10.0
20°-30°	596.9	15.3
30°-40°	719.6	18.4
40°-50°	733.8	18.8
50°-60°	628.0	16.1
60°-70°	432.6	11.1
70°-80°	221.8	5.7
80°-90°	51.6	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°	1123.6	28.7
0°-40°	1843.2	47.1
0°-60°	3205.0	81.9
0°-90°	3911.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3911.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1430	1430	1430	1430	1430	
5°	1427	1424	1423	1427	1430	136
15°	1377	1375	1383	1393	1398	388
25°	1272	1276	1292	1314	1323	586
35°	1122	1126	1150	1175	1186	702
45°	929	930	952	976	982	716
55°	693	688	702	717	723	618
65°	438	427	435	438	445	435
75°	217	208	205	205	203	234
85°	52	46	40	36	31	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1430.3	1430.3	1430.3	1430.3	1430.3
2.5°	1431.8	1428.8	1425.8	1428.8	1431.8
5°	1427.3	1424.3	1422.8	1427.3	1430.3
7.5°	1419.9	1416.9	1416.9	1422.8	1425.8
10°	1408.0	1406.5	1409.5	1415.4	1421.4
12.5°	1393.2	1393.2	1397.6	1405.0	1411.0
15°	1376.9	1375.4	1382.8	1393.2	1397.6
17.5°	1354.6	1356.1	1366.5	1378.3	1384.3
20°	1332.3	1333.8	1344.2	1360.5	1368.0
22.5°	1304.2	1307.1	1319.0	1339.8	1347.2
25°	1271.5	1276.0	1292.3	1314.5	1323.4
27.5°	1238.9	1243.3	1261.1	1286.4	1298.2
30°	1203.3	1209.2	1227.0	1253.7	1264.1
32.5°	1163.2	1167.7	1189.9	1216.6	1227.0
35°	1121.7	1126.1	1149.9	1175.1	1185.5
37.5°	1080.1	1080.1	1103.9	1133.5	1143.9
40°	1029.7	1031.2	1056.4	1084.6	1090.5
42.5°	982.2	982.2	1004.5	1031.2	1041.5
45°	928.8	930.3	952.5	976.3	982.2
47.5°	873.9	873.9	893.2	915.4	921.4
50°	816.0	813.1	835.3	853.1	857.6
52.5°	756.7	752.2	770.0	784.9	790.8
55°	692.9	688.4	701.8	716.6	722.6
57.5°	626.1	620.2	635.0	648.4	651.3
60°	563.8	554.9	566.8	574.2	581.6
62.5°	501.5	491.1	500.0	504.5	510.4
65°	437.7	427.3	434.7	437.7	445.1
67.5°	376.9	369.4	370.9	375.4	378.3
70°	322.0	313.1	313.1	313.1	314.5
72.5°	271.5	258.2	256.7	258.2	258.2
75°	216.6	207.7	204.7	204.7	203.3
77.5°	173.6	161.7	160.2	157.3	154.3
80°	126.1	115.7	112.8	111.3	109.8
82.5°	87.5	78.6	75.7	72.7	68.2
85°	51.9	46.0	40.1	35.6	31.2
87.5°	19.3	17.8	14.8	13.4	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)