

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: P296337

Luminaire Tested: **24RLN-LD5-60-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296337  
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-LD5-60-RDP-UNV-L92765-W2A1-U-2700K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3914.0 lumens  
Efficiency: N/A  
Efficacy: 90.7 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

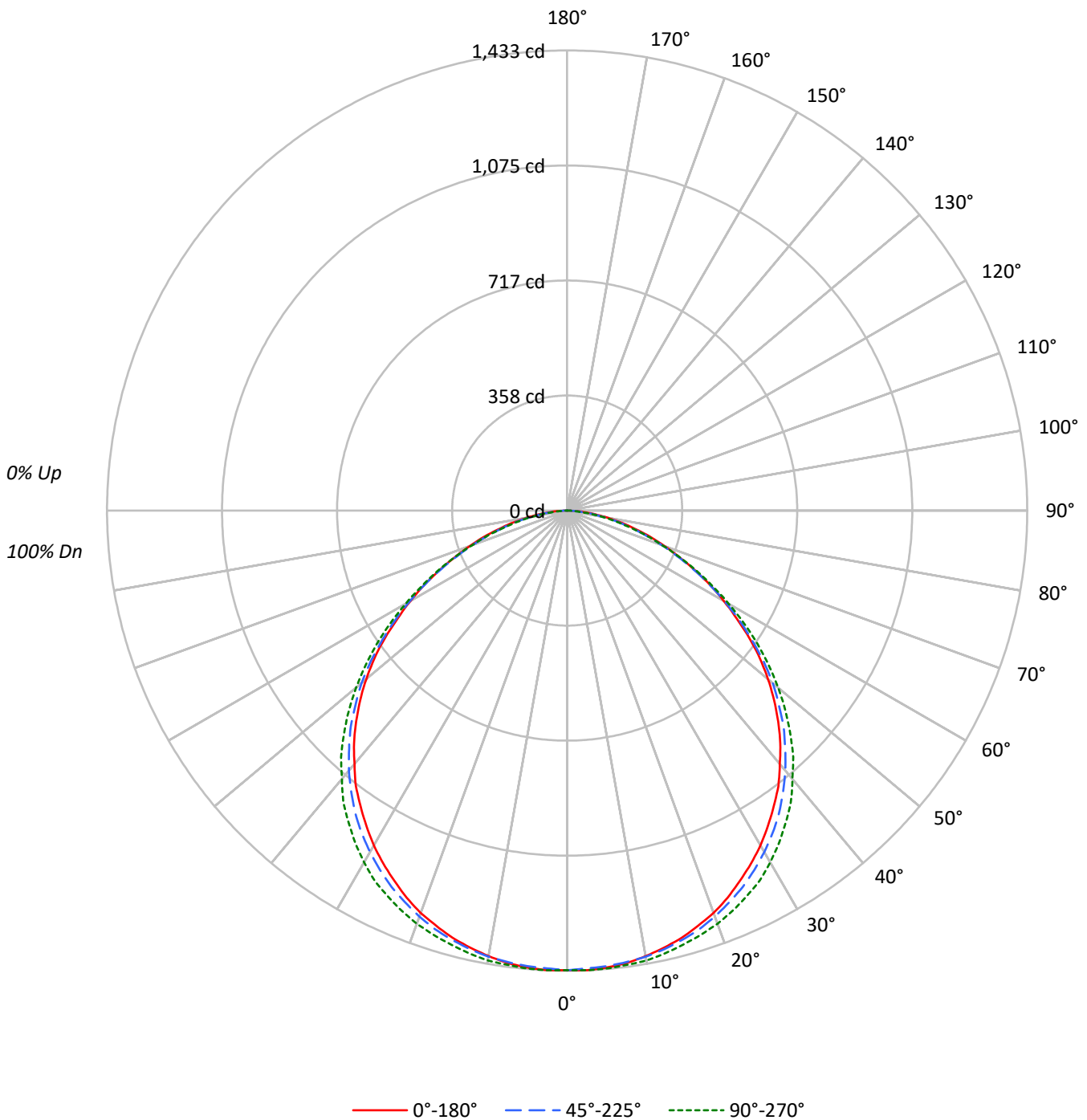
Input Watts (W): 43.152  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1926	1926	1926
5°	1929	1923	1933
10°	1925	1927	1943
15°	1919	1928	1948
20°	1909	1926	1960
25°	1889	1920	1966
30°	1871	1908	1966
35°	1844	1890	1949
40°	1810	1857	1917
45°	1769	1814	1870
50°	1709	1750	1796
55°	1627	1647	1696
60°	1518	1526	1566
65°	1394	1385	1418
70°	1268	1233	1238
75°	1127	1065	1057
80°	978	874	852
85°	803	619	482



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.7	3.5
10°-20°	391.3	10.0
20°-30°	597.3	15.3
30°-40°	720.1	18.4
40°-50°	734.4	18.8
50°-60°	628.5	16.1
60°-70°	432.9	11.1
70°-80°	221.9	5.7
80°-90°	51.7	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°	1124.4	28.7
0°-40°	1844.6	47.1
0°-60°	3207.5	81.9
0°-90°	3914.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3914.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1431	1431	1431	1431	1431	
5°	1428	1425	1424	1428	1431	136
15°	1378	1376	1384	1394	1399	389
25°	1272	1277	1293	1316	1324	587
35°	1122	1127	1151	1176	1186	702
45°	930	931	953	977	983	716
55°	693	689	702	717	723	619
65°	438	428	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°	1431.4	1431.4	1431.4	1431.4	1431.4
2.5°	1432.8	1429.9	1426.9	1429.9	1432.8
5°	1428.4	1425.4	1423.9	1428.4	1431.4
7.5°	1421.0	1418.0	1418.0	1423.9	1426.9
10°	1409.1	1407.6	1410.6	1416.5	1422.5
12.5°	1394.2	1394.2	1398.7	1406.1	1412.1
15°	1377.9	1376.4	1383.9	1394.2	1398.7
17.5°	1355.6	1357.1	1367.5	1379.4	1385.3
20°	1333.4	1334.9	1345.2	1361.6	1369.0
22.5°	1305.2	1308.1	1320.0	1340.8	1348.2
25°	1272.5	1276.9	1293.3	1315.5	1324.5
27.5°	1239.8	1244.3	1262.1	1287.3	1299.2
30°	1204.2	1210.1	1227.9	1254.7	1265.1
32.5°	1164.1	1168.6	1190.8	1217.6	1227.9
35°	1122.5	1127.0	1150.7	1176.0	1186.4
37.5°	1080.9	1080.9	1104.7	1134.4	1144.8
40°	1030.5	1031.9	1057.2	1085.4	1091.3
42.5°	982.9	982.9	1005.2	1031.9	1042.3
45°	929.5	931.0	953.3	977.0	982.9
47.5°	874.6	874.6	893.9	916.1	922.1
50°	816.6	813.7	836.0	853.8	858.2
52.5°	757.3	752.8	770.6	785.5	791.4
55°	693.4	689.0	702.3	717.2	723.1
57.5°	626.6	620.7	635.5	648.9	651.8
60°	564.2	555.3	567.2	574.6	582.0
62.5°	501.9	491.5	500.4	504.8	510.8
65°	438.0	427.6	435.1	438.0	445.4
67.5°	377.1	369.7	371.2	375.7	378.6
70°	322.2	313.3	313.3	313.3	314.8
72.5°	271.7	258.4	256.9	258.4	258.4
75°	216.8	207.9	204.9	204.9	203.4
77.5°	173.7	161.8	160.4	157.4	154.4
80°	126.2	115.8	112.8	111.4	109.9
82.5°	87.6	78.7	75.7	72.8	68.3
85°	52.0	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)