

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: P296152

Luminaire Tested: **24RLN-LD5-36-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296152  
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-L82765-W2A1-U-2700K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2795.0 lumens  
Efficiency: N/A  
Efficacy: 110.9 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

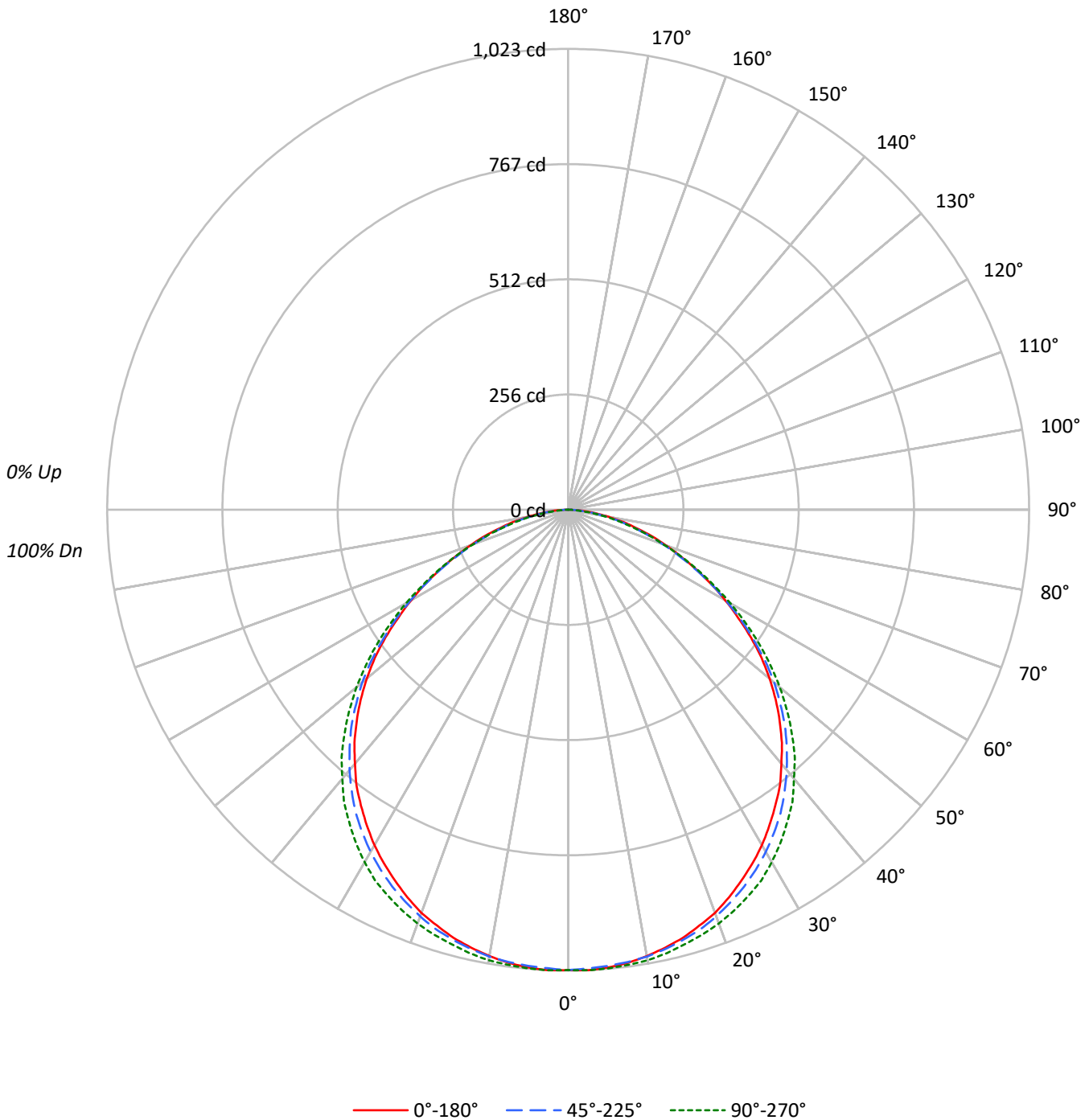
Input Watts (W): 25.203  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1375	1375	1375
5°	1378	1373	1380
10°	1375	1376	1388
15°	1371	1377	1391
20°	1363	1375	1400
25°	1349	1371	1404
30°	1336	1362	1404
35°	1317	1350	1392
40°	1293	1326	1369
45°	1263	1295	1336
50°	1221	1250	1283
55°	1162	1176	1211
60°	1084	1090	1118
65°	996	989	1013
70°	905	880	884
75°	805	761	755
80°	698	625	608
85°	573	442	344



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.9	3.5
10°-20°	279.5	10.0
20°-30°	426.6	15.3
30°-40°	514.3	18.4
40°-50°	524.4	18.8
50°-60°	448.8	16.1
60°-70°	309.2	11.1
70°-80°	158.5	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°	803.0	28.7
0°-40°	1317.2	47.1
0°-60°	2290.5	81.9
0°-90°	2795.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2795.0	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	988	996	999	278
25°	909	912	924	939	946	419
35°	802	805	822	840	847	501
45°	664	665	681	698	702	511
55°	495	492	502	512	516	442
65°	313	305	311	313	318	311
75°	155	148	146	146	145	167
85°	37	33	29	25	22	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1022.1	1022.1	1022.1	1022.1	1022.1
2.5°	1023.2	1021.1	1019.0	1021.1	1023.2
5°	1020.0	1017.9	1016.8	1020.0	1022.1
7.5°	1014.7	1012.6	1012.6	1016.8	1019.0
10°	1006.2	1005.2	1007.3	1011.5	1015.8
12.5°	995.6	995.6	998.8	1004.1	1008.4
15°	984.0	982.9	988.2	995.6	998.8
17.5°	968.1	969.1	976.5	985.0	989.3
20°	952.2	953.2	960.6	972.3	977.6
22.5°	932.0	934.1	942.6	957.5	962.8
25°	908.7	911.9	923.5	939.4	945.8
27.5°	885.4	888.5	901.3	919.3	927.8
30°	859.9	864.2	876.9	896.0	903.4
32.5°	831.3	834.5	850.4	869.5	876.9
35°	801.6	804.8	821.7	839.8	847.2
37.5°	771.9	771.9	788.9	810.1	817.5
40°	735.9	736.9	754.9	775.1	779.3
42.5°	701.9	701.9	717.8	736.9	744.3
45°	663.8	664.8	680.7	697.7	701.9
47.5°	624.5	624.5	638.3	654.2	658.5
50°	583.2	581.1	597.0	609.7	612.9
52.5°	540.8	537.6	550.3	560.9	565.1
55°	495.2	492.0	501.5	512.1	516.4
57.5°	447.5	443.2	453.8	463.4	465.5
60°	402.9	396.6	405.0	410.3	415.6
62.5°	358.4	351.0	357.3	360.5	364.7
65°	312.8	305.4	310.7	312.8	318.1
67.5°	269.3	264.0	265.1	268.3	270.4
70°	230.1	223.7	223.7	223.7	224.8
72.5°	194.0	184.5	183.4	184.5	184.5
75°	154.8	148.4	146.3	146.3	145.3
77.5°	124.1	115.6	114.5	112.4	110.3
80°	90.1	82.7	80.6	79.5	78.5
82.5°	62.6	56.2	54.1	52.0	48.8
85°	37.1	32.9	28.6	25.4	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)