

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: P296299

Luminaire Tested: **24RLN-LD5-36-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296299
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-L92765-W2A1-U-5700K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2871.0 lumens
Efficiency: N/A
Efficacy: 110.6 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

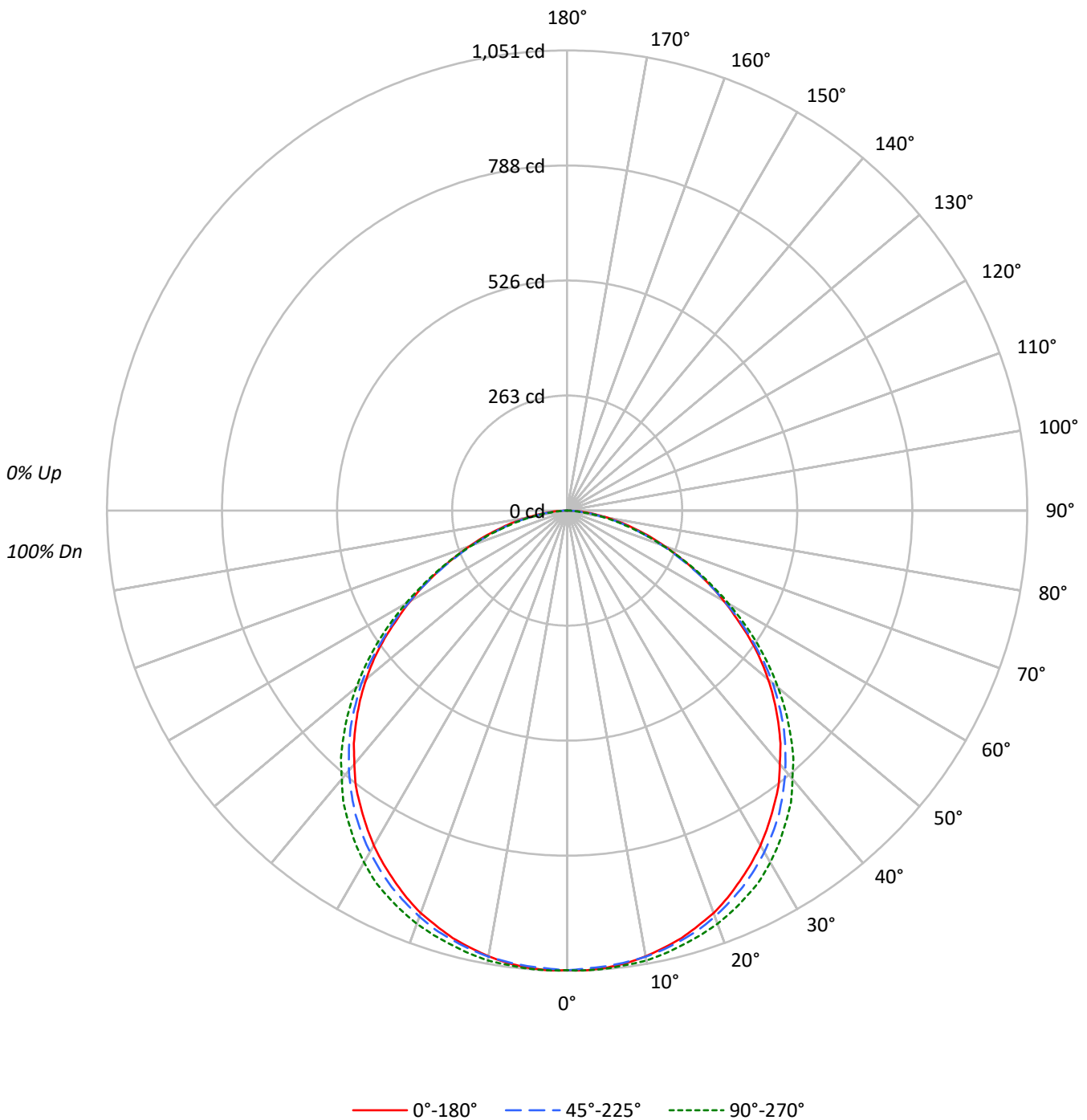
Input Watts (W): 25.947
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1413	1413	1413
5°	1415	1411	1418
10°	1412	1414	1426
15°	1408	1414	1429
20°	1400	1413	1438
25°	1386	1408	1442
30°	1372	1399	1442
35°	1352	1386	1429
40°	1328	1362	1406
45°	1297	1330	1372
50°	1254	1284	1318
55°	1193	1209	1244
60°	1114	1120	1149
65°	1023	1016	1040
70°	930	904	908
75°	827	781	776
80°	717	642	625
85°	588	454	354



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.6	3.5
10°-20°	287.1	10.0
20°-30°	438.2	15.3
30°-40°	528.2	18.4
40°-50°	538.7	18.8
50°-60°	461.0	16.1
60°-70°	317.6	11.1
70°-80°	162.8	5.7
80°-90°	37.9	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°	824.8	28.7
0°-40°	1353.0	47.1
0°-60°	2352.8	81.9
0°-90°	2871.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2871.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1050	1050	1050	1050	1050	
5°	1048	1046	1044	1048	1050	100
15°	1011	1010	1015	1023	1026	285
25°	933	937	949	965	972	430
35°	823	827	844	863	870	515
45°	682	683	699	717	721	525
55°	509	505	515	526	530	454
65°	321	314	319	321	327	319
75°	159	152	150	150	149	171
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°	1049.9	1049.9	1049.9	1049.9	1049.9
2.5°	1051.0	1048.8	1046.7	1048.8	1051.0
5°	1047.8	1045.6	1044.5	1047.8	1049.9
7.5°	1042.3	1040.1	1040.1	1044.5	1046.7
10°	1033.6	1032.5	1034.7	1039.0	1043.4
12.5°	1022.7	1022.7	1026.0	1031.4	1035.8
15°	1010.7	1009.6	1015.1	1022.7	1026.0
17.5°	994.4	995.5	1003.1	1011.8	1016.2
20°	978.1	979.1	986.8	998.7	1004.2
22.5°	957.4	959.5	968.2	983.5	988.9
25°	933.4	936.7	948.6	965.0	971.5
27.5°	909.4	912.7	925.8	944.3	953.0
30°	883.3	887.7	900.7	920.3	928.0
32.5°	853.9	857.2	873.5	893.1	900.7
35°	823.4	826.7	844.1	862.6	870.2
37.5°	792.9	792.9	810.3	832.1	839.7
40°	755.9	757.0	775.5	796.2	800.5
42.5°	721.0	721.0	737.4	757.0	764.6
45°	681.8	682.9	699.2	716.7	721.0
47.5°	641.5	641.5	655.7	672.0	676.4
50°	599.0	596.9	613.2	626.3	629.5
52.5°	555.5	552.2	565.3	576.2	580.5
55°	508.6	505.4	515.2	526.1	530.4
57.5°	459.6	455.3	466.2	476.0	478.1
60°	413.9	407.3	416.1	421.5	426.9
62.5°	368.1	360.5	367.0	370.3	374.7
65°	321.3	313.7	319.1	321.3	326.7
67.5°	276.6	271.2	272.3	275.6	277.7
70°	236.3	229.8	229.8	229.8	230.9
72.5°	199.3	189.5	188.4	189.5	189.5
75°	159.0	152.5	150.3	150.3	149.2
77.5°	127.4	118.7	117.6	115.4	113.3
80°	92.6	85.0	82.8	81.7	80.6
82.5°	64.3	57.7	55.5	53.4	50.1
85°	38.1	33.8	29.4	26.1	22.9
87.5°	14.2	13.1	10.9	9.8	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)