

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: P296698

Luminaire Tested: **22RLN-LD5-40-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296698
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36060-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-40-RDP-UNV-L92765-W2A1-U-5700K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3061.0 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.38 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

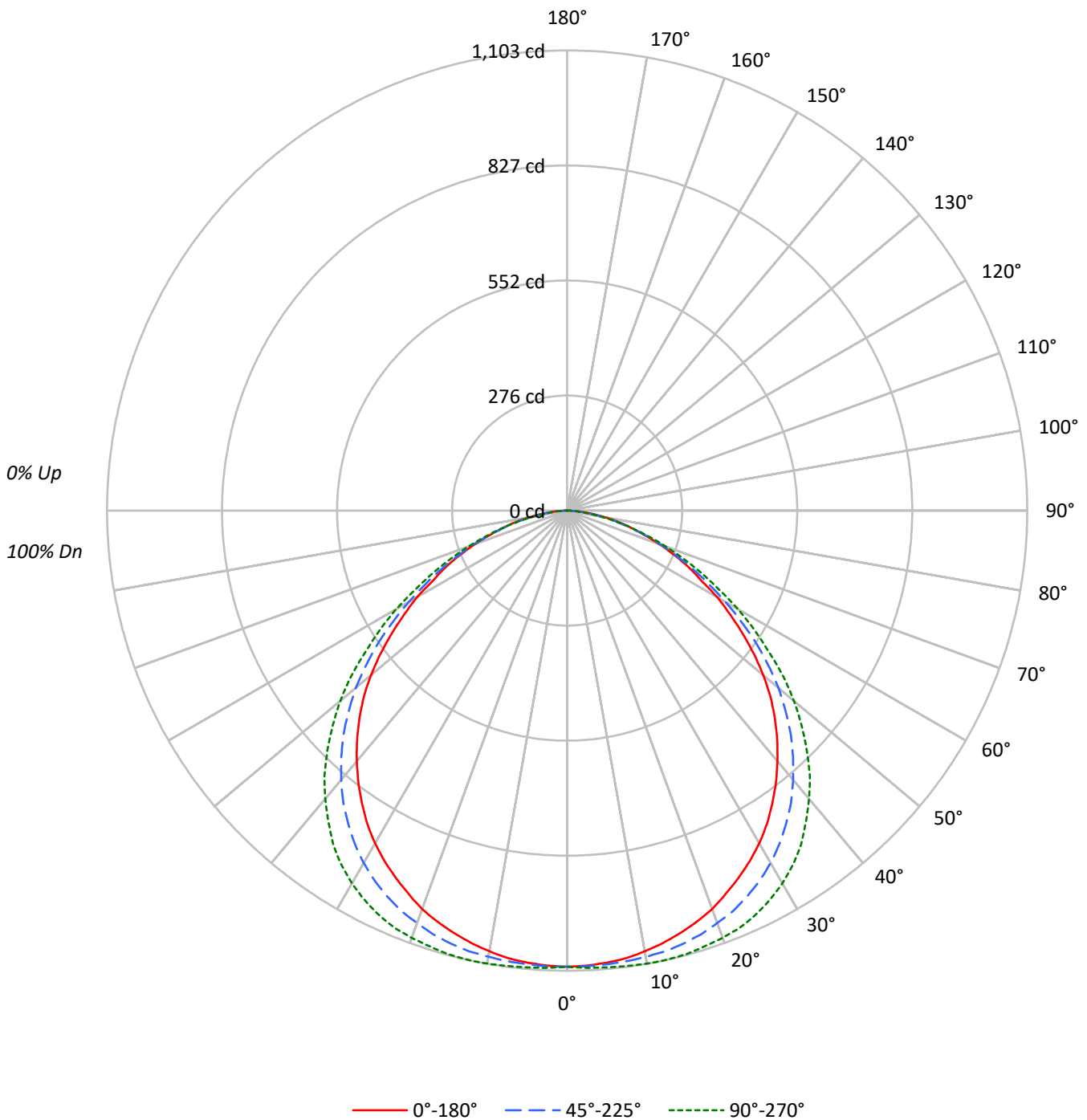
Input Watts (W): 33.108
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2942	2942	2942
5°	2938	2948	2969
10°	2931	2967	3013
15°	2921	2994	3067
20°	2911	3013	3121
25°	2885	3030	3174
30°	2862	3031	3205
35°	2817	3007	3211
40°	2756	2960	3170
45°	2679	2886	3092
50°	2571	2767	2971
55°	2407	2591	2767
60°	2237	2358	2549
65°	2050	2122	2265
70°	1856	1885	1974
75°	1635	1596	1654
80°	1421	1306	1247
85°	1155	868	750



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.1	3.4
10°-20°	303.6	9.9
20°-30°	470.4	15.4
30°-40°	572.4	18.7
40°-50°	583.0	19.0
50°-60°	491.7	16.1
60°-70°	332.6	10.9
70°-80°	166.2	5.4
80°-90°	37.0	1.2
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°	878.1	28.7
0°-40°	1450.5	47.4
0°-60°	2525.2	82.5
0°-90°	3061.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3061.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1093	1093	1093	1093	1093	
5°	1088	1090	1092	1097	1099	103
15°	1048	1056	1075	1093	1101	296
25°	972	987	1020	1054	1069	448
35°	858	876	916	959	977	536
45°	704	717	758	798	813	542
55°	513	520	552	578	590	459
65°	322	316	333	348	356	318
75°	157	152	154	155	159	169
85°	37	32	28	24	24	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1093.4	1093.4	1093.4	1093.4	1093.4
2.5°	1091.5	1091.5	1093.4	1095.3	1097.1
5°	1087.8	1089.7	1091.5	1097.1	1099.0
7.5°	1082.2	1084.0	1089.7	1097.1	1100.9
10°	1072.8	1076.5	1085.9	1097.1	1102.8
12.5°	1061.6	1067.2	1082.2	1095.3	1102.8
15°	1048.5	1056.0	1074.7	1093.4	1100.9
17.5°	1033.5	1042.8	1065.3	1085.9	1095.3
20°	1016.6	1027.9	1052.2	1078.4	1089.7
22.5°	994.2	1009.1	1039.1	1069.1	1082.2
25°	971.7	986.7	1020.4	1054.1	1069.1
27.5°	947.4	964.2	999.8	1037.2	1052.2
30°	921.2	936.1	975.4	1014.8	1031.6
32.5°	891.2	906.2	947.4	988.6	1007.3
35°	857.5	876.2	915.5	958.6	977.3
37.5°	821.9	838.8	881.8	923.0	939.9
40°	784.5	801.3	842.5	885.6	902.4
42.5°	745.2	762.0	801.3	842.5	861.2
45°	704.0	717.1	758.3	797.6	812.6
47.5°	660.9	670.3	709.6	747.0	762.0
50°	614.1	623.5	660.9	694.6	709.6
52.5°	563.6	571.0	606.6	636.6	653.4
55°	513.0	520.5	552.3	578.5	589.8
57.5°	462.4	466.2	494.3	520.5	531.7
60°	415.6	415.6	438.1	458.7	473.7
62.5°	361.3	367.0	383.8	404.4	410.0
65°	322.0	316.4	333.3	348.2	355.7
67.5°	277.1	273.3	284.6	297.7	301.4
70°	235.9	230.3	239.6	247.1	250.9
72.5°	192.8	191.0	194.7	200.3	202.2
75°	157.3	151.7	153.5	155.4	159.1
77.5°	125.4	116.1	118.0	116.1	118.0
80°	91.7	84.3	84.3	82.4	80.5
82.5°	61.8	58.0	54.3	50.6	48.7
85°	37.4	31.8	28.1	24.3	24.3
87.5°	15.0	11.2	9.4	9.4	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)