

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: P296561

Luminaire Tested: **22RLN-LD5-40-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296561
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-L83050-W2A1-U-3000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3069.0 lumens
Efficiency: N/A
Efficacy: 95.9 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

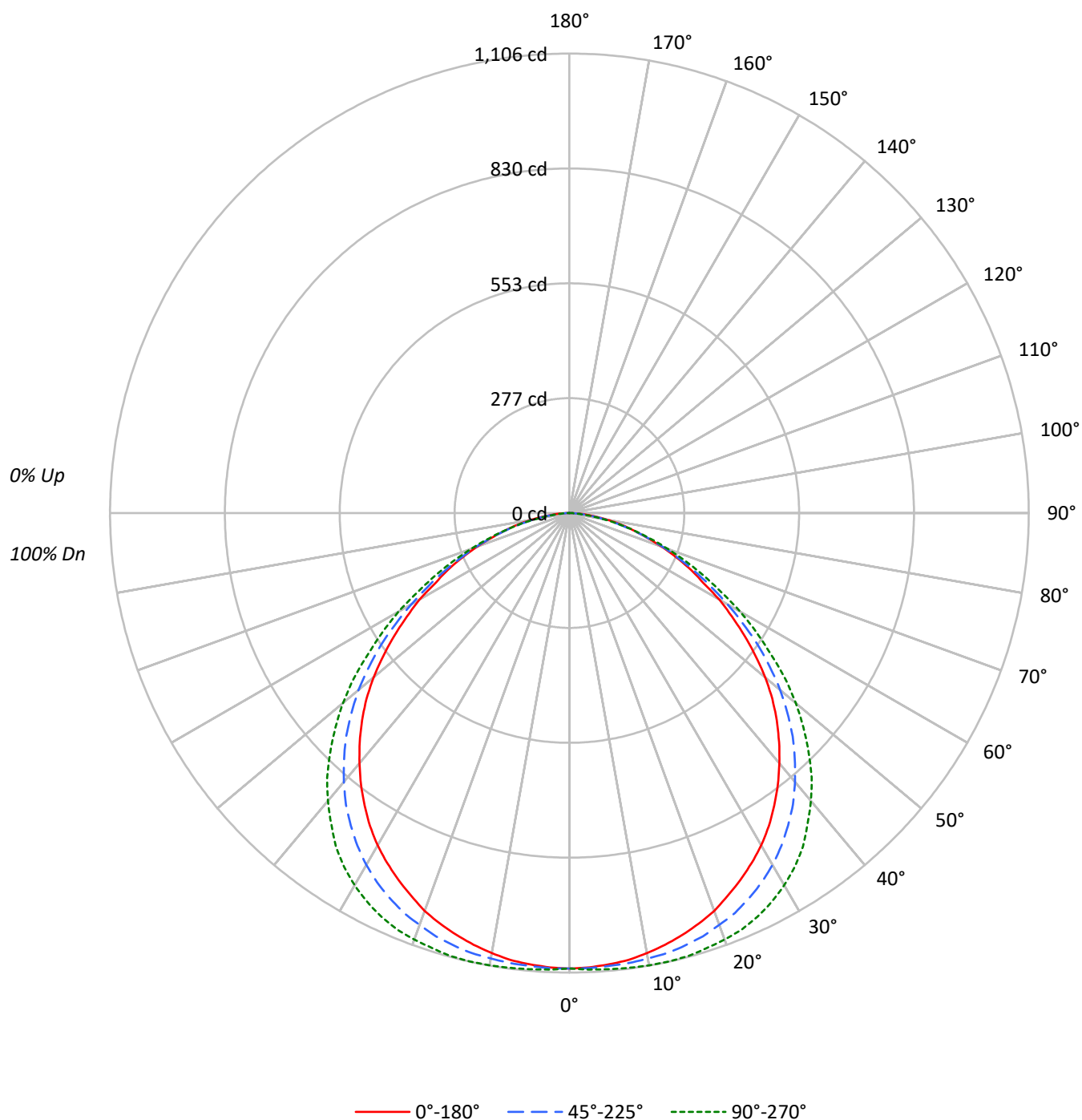
Input Watts (W): 31.992
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	103	99	96	98	95	93	94	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52		
5	77	64	56	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	54	47	42	52	46	42	40		
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	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	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2950	2950	2950
5°	2946	2956	2977
10°	2939	2975	3021
15°	2929	3002	3075
20°	2919	3021	3129
25°	2893	3037	3183
30°	2870	3039	3214
35°	2824	3015	3219
40°	2763	2967	3178
45°	2686	2893	3100
50°	2578	2774	2978
55°	2413	2598	2774
60°	2243	2364	2556
65°	2056	2127	2271
70°	1861	1891	1979
75°	1640	1600	1659
80°	1426	1309	1251
85°	1158	871	753



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.4	3.4
10°-20°	304.4	9.9
20°-30°	471.6	15.4
30°-40°	573.9	18.7
40°-50°	584.5	19.0
50°-60°	493.0	16.1
60°-70°	333.5	10.9
70°-80°	166.6	5.4
80°-90°	37.1	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°	880.4	28.7
0°-40°	1454.3	47.4
0°-60°	2531.8	82.5
0°-90°	3069.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3069.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1096	1096	1096	1096	1096	
5°	1091	1092	1094	1100	1102	104
15°	1051	1059	1078	1096	1104	297
25°	974	989	1023	1057	1072	449
35°	860	878	918	961	980	537
45°	706	719	760	800	815	544
55°	514	522	554	580	591	460
65°	323	317	334	349	357	319
75°	158	152	154	156	160	169
85°	38	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°	1096.3	1096.3	1096.3	1096.3	1096.3
2.5°	1094.4	1094.4	1096.3	1098.1	1100.0
5°	1090.6	1092.5	1094.4	1100.0	1101.9
7.5°	1085.0	1086.9	1092.5	1100.0	1103.8
10°	1075.6	1079.4	1088.7	1100.0	1105.6
12.5°	1064.3	1070.0	1085.0	1098.1	1105.6
15°	1051.2	1058.7	1077.5	1096.3	1103.8
17.5°	1036.2	1045.6	1068.1	1088.7	1098.1
20°	1019.3	1030.6	1055.0	1081.2	1092.5
22.5°	996.8	1011.8	1041.8	1071.9	1085.0
25°	974.2	989.3	1023.0	1056.8	1071.9
27.5°	949.8	966.7	1002.4	1039.9	1055.0
30°	923.6	938.6	978.0	1017.4	1034.3
32.5°	893.5	908.5	949.8	991.1	1009.9
35°	859.7	878.5	917.9	961.1	979.9
37.5°	824.1	841.0	884.1	925.4	942.3
40°	786.5	803.4	844.7	887.9	904.8
42.5°	747.1	764.0	803.4	844.7	863.5
45°	705.8	718.9	760.2	799.7	814.7
47.5°	662.6	672.0	711.4	749.0	764.0
50°	615.7	625.1	662.6	696.4	711.4
52.5°	565.0	572.5	608.2	638.2	655.1
55°	514.3	521.8	553.8	580.0	591.3
57.5°	463.7	467.4	495.6	521.8	533.1
60°	416.7	416.7	439.3	459.9	474.9
62.5°	362.3	367.9	384.8	405.5	411.1
65°	322.9	317.2	334.1	349.2	356.7
67.5°	277.8	274.1	285.3	298.5	302.2
70°	236.5	230.9	240.3	247.8	251.5
72.5°	193.3	191.5	195.2	200.9	202.7
75°	157.7	152.0	153.9	155.8	159.6
77.5°	125.8	116.4	118.3	116.4	118.3
80°	92.0	84.5	84.5	82.6	80.7
82.5°	61.9	58.2	54.4	50.7	48.8
85°	37.5	31.9	28.2	24.4	24.4
87.5°	15.0	11.3	9.4	9.4	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)