

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: P296652

Luminaire Tested: **22RLN-LD5-44-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296652
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-LD5-44-RDP-UNV-L93050-W2A1-U-4000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3265.0 lumens
Efficiency: N/A
Efficacy: 89.3 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

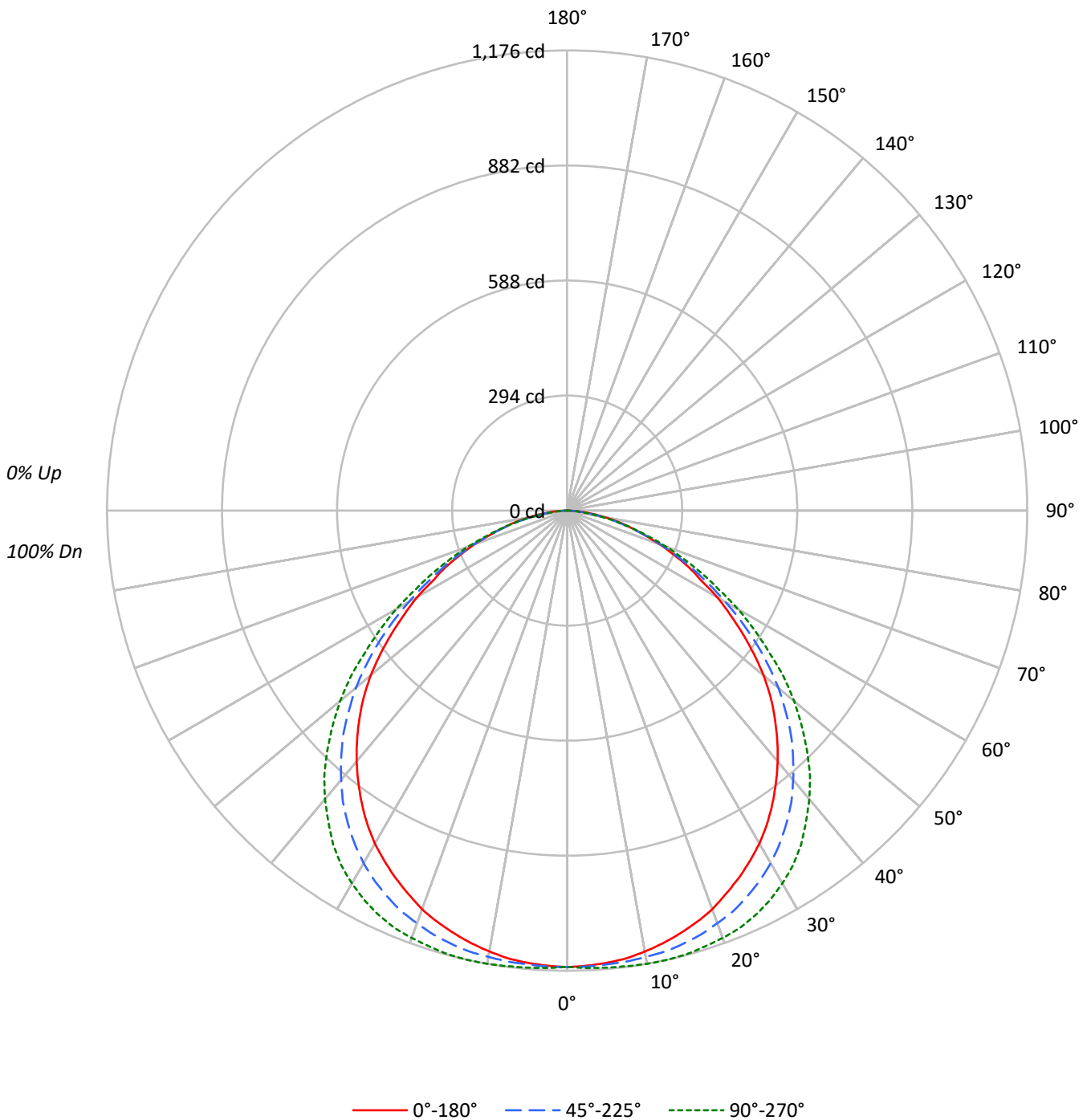
Input Watts (W): 36.549
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3138	3138	3138
5°	3134	3145	3167
10°	3127	3165	3214
15°	3115	3193	3271
20°	3105	3214	3328
25°	3078	3232	3386
30°	3053	3233	3419
35°	3005	3208	3425
40°	2940	3157	3381
45°	2858	3078	3298
50°	2742	2951	3169
55°	2567	2764	2951
60°	2386	2515	2720
65°	2187	2264	2416
70°	1980	2011	2105
75°	1745	1703	1764
80°	1517	1393	1331
85°	1232	926	803



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.1	3.4
10°-20°	323.8	9.9
20°-30°	501.7	15.4
30°-40°	610.6	18.7
40°-50°	621.9	19.0
50°-60°	524.5	16.1
60°-70°	354.8	10.9
70°-80°	177.3	5.4
80°-90°	39.4	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°	936.6	28.7
0°-40°	1547.2	47.4
0°-60°	2693.5	82.5
0°-90°	3265.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3265.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1166	1166	1166	1166	1166	
5°	1160	1162	1164	1170	1172	110
15°	1118	1126	1146	1166	1174	316
25°	1036	1052	1088	1124	1140	478
35°	915	935	977	1022	1042	572
45°	751	765	809	851	867	578
55°	547	555	589	617	629	490
65°	344	338	356	371	379	339
75°	168	162	164	166	170	180
85°	40	34	30	26	26	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1166.3	1166.3	1166.3	1166.3	1166.3
2.5°	1164.3	1164.3	1166.3	1168.3	1170.3
5°	1160.3	1162.3	1164.3	1170.3	1172.3
7.5°	1154.3	1156.3	1162.3	1170.3	1174.3
10°	1144.3	1148.3	1158.3	1170.3	1176.3
12.5°	1132.3	1138.3	1154.3	1168.3	1176.3
15°	1118.3	1126.3	1146.3	1166.3	1174.3
17.5°	1102.4	1112.3	1136.3	1158.3	1168.3
20°	1084.4	1096.4	1122.3	1150.3	1162.3
22.5°	1060.4	1076.4	1108.4	1140.3	1154.3
25°	1036.5	1052.4	1088.4	1124.3	1140.3
27.5°	1010.5	1028.5	1066.4	1106.4	1122.3
30°	982.5	998.5	1040.5	1082.4	1100.4
32.5°	950.6	966.6	1010.5	1054.4	1074.4
35°	914.6	934.6	976.6	1022.5	1042.5
37.5°	876.7	894.7	940.6	984.5	1002.5
40°	836.8	854.7	898.7	944.6	962.6
42.5°	794.8	812.8	854.7	898.7	918.6
45°	750.9	764.9	808.8	850.7	866.7
47.5°	705.0	714.9	756.9	796.8	812.8
50°	655.0	665.0	705.0	740.9	756.9
52.5°	601.1	609.1	647.0	679.0	697.0
55°	547.2	555.2	589.1	617.1	629.1
57.5°	493.3	497.3	527.2	555.2	567.2
60°	443.3	443.3	467.3	489.3	505.3
62.5°	385.4	391.4	409.4	431.4	437.4
65°	343.5	337.5	355.5	371.4	379.4
67.5°	295.6	291.6	303.5	317.5	321.5
70°	251.6	245.6	255.6	263.6	267.6
72.5°	205.7	203.7	207.7	213.7	215.7
75°	167.8	161.8	163.8	165.8	169.7
77.5°	133.8	123.8	125.8	123.8	125.8
80°	97.9	89.9	89.9	87.9	85.9
82.5°	65.9	61.9	57.9	53.9	51.9
85°	39.9	33.9	30.0	26.0	26.0
87.5°	16.0	12.0	10.0	10.0	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)