

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: P296528

Luminaire Tested: **22RLN-LD5-40-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296528
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-40-UNV-L92765-W2A1-U-5000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3701.0 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

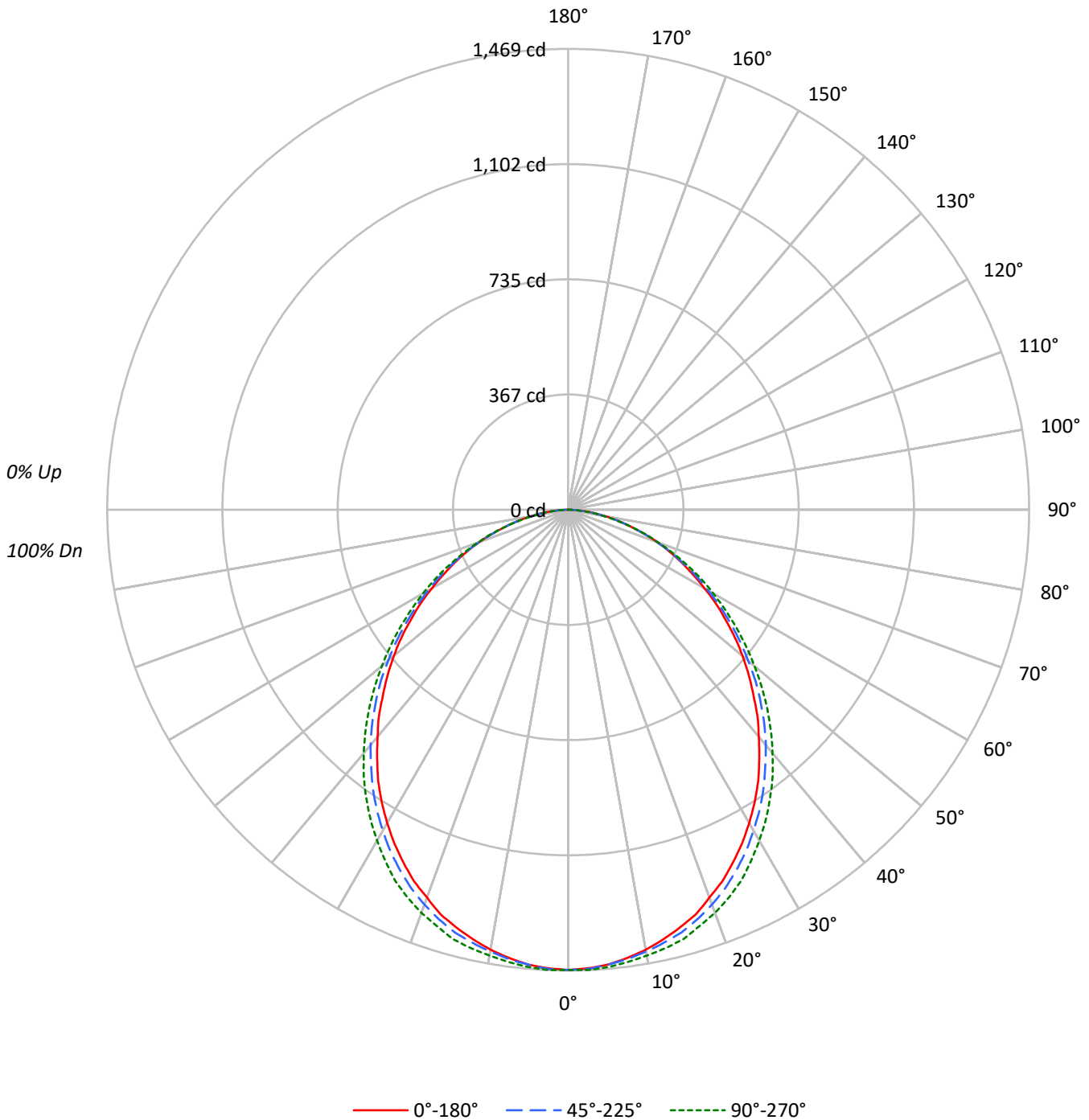
Input Watts (W): 32.829
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71					71			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46					46			
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40					40			
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36					36			
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32					32			
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29					29			
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3948	3948	3948
5°	3933	3933	3953
10°	3893	3908	3943
15°	3840	3886	3948
20°	3768	3836	3916
25°	3687	3764	3874
30°	3584	3670	3784
35°	3467	3564	3686
40°	3319	3442	3559
45°	3174	3301	3413
50°	3036	3136	3244
55°	2874	2961	3065
60°	2701	2771	2870
65°	2538	2585	2667
70°	2367	2367	2410
75°	2111	2111	2111
80°	1858	1802	1802
85°	1482	1423	1309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.3	3.7
10°-20°	393.3	10.6
20°-30°	584.3	15.8
30°-40°	678.1	18.3
40°-50°	667.7	18.0
50°-60°	565.1	15.3
60°-70°	403.0	10.9
70°-80°	216.6	5.9
80°-90°	54.6	1.5
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°	1116.0	30.2
0°-40°	1794.1	48.5
0°-60°	3026.9	81.8
0°-90°	3701.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3701.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1467	1467	1467	1467	1467	
5°	1456	1456	1456	1462	1463	138
15°	1378	1382	1395	1408	1417	389
25°	1242	1246	1268	1292	1305	572
35°	1056	1057	1085	1111	1122	659
45°	834	840	867	888	897	645
55°	613	614	631	648	653	549
65°	399	399	406	413	419	396
75°	203	201	203	203	203	218
85°	48	46	46	42	42	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1467.0	1467.0	1467.0	1467.0	1467.0
2.5°	1463.3	1463.3	1465.2	1467.0	1468.8
5°	1455.9	1455.9	1455.9	1461.5	1463.3
7.5°	1441.2	1443.0	1444.9	1450.4	1454.1
10°	1424.6	1426.4	1430.1	1439.3	1443.0
12.5°	1402.4	1407.9	1413.5	1426.4	1431.9
15°	1378.4	1382.1	1395.0	1407.9	1417.2
17.5°	1352.6	1354.4	1369.2	1387.6	1391.3
20°	1315.7	1321.2	1339.7	1358.1	1367.4
22.5°	1282.5	1286.2	1306.5	1330.4	1337.8
25°	1241.9	1245.6	1267.7	1291.7	1304.6
27.5°	1199.4	1203.1	1227.1	1252.9	1262.2
30°	1153.3	1157.0	1181.0	1208.7	1217.9
32.5°	1105.3	1109.0	1134.8	1158.8	1171.8
35°	1055.5	1057.3	1085.0	1110.9	1121.9
37.5°	1000.1	1005.7	1031.5	1057.3	1070.3
40°	944.8	950.3	979.8	1003.8	1013.1
42.5°	893.1	900.5	924.5	946.6	955.9
45°	834.1	839.6	867.3	887.6	896.8
47.5°	780.6	786.1	810.1	830.4	835.9
50°	725.2	728.9	749.2	767.6	775.0
52.5°	669.8	671.7	690.1	708.6	714.1
55°	612.6	614.5	631.1	647.7	653.2
57.5°	559.1	559.1	573.9	586.8	592.3
60°	501.9	501.9	514.8	527.7	533.3
62.5°	448.4	448.4	461.3	470.5	477.9
65°	398.6	398.6	406.0	413.3	418.9
67.5°	350.6	345.1	352.4	361.7	359.8
70°	300.8	295.2	300.8	304.5	306.3
72.5°	251.0	247.3	251.0	252.8	256.5
75°	203.0	201.1	203.0	203.0	203.0
77.5°	162.4	156.8	160.5	158.7	156.8
80°	119.9	118.1	116.3	114.4	116.3
82.5°	83.0	81.2	81.2	77.5	77.5
85°	48.0	46.1	46.1	42.4	42.4
87.5°	18.5	18.5	16.6	16.6	16.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)