

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: P296526

Luminaire Tested: **22RLN-LD5-40-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296526
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-4000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3536.0 lumens
Efficiency: N/A
Efficacy: 108.9 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

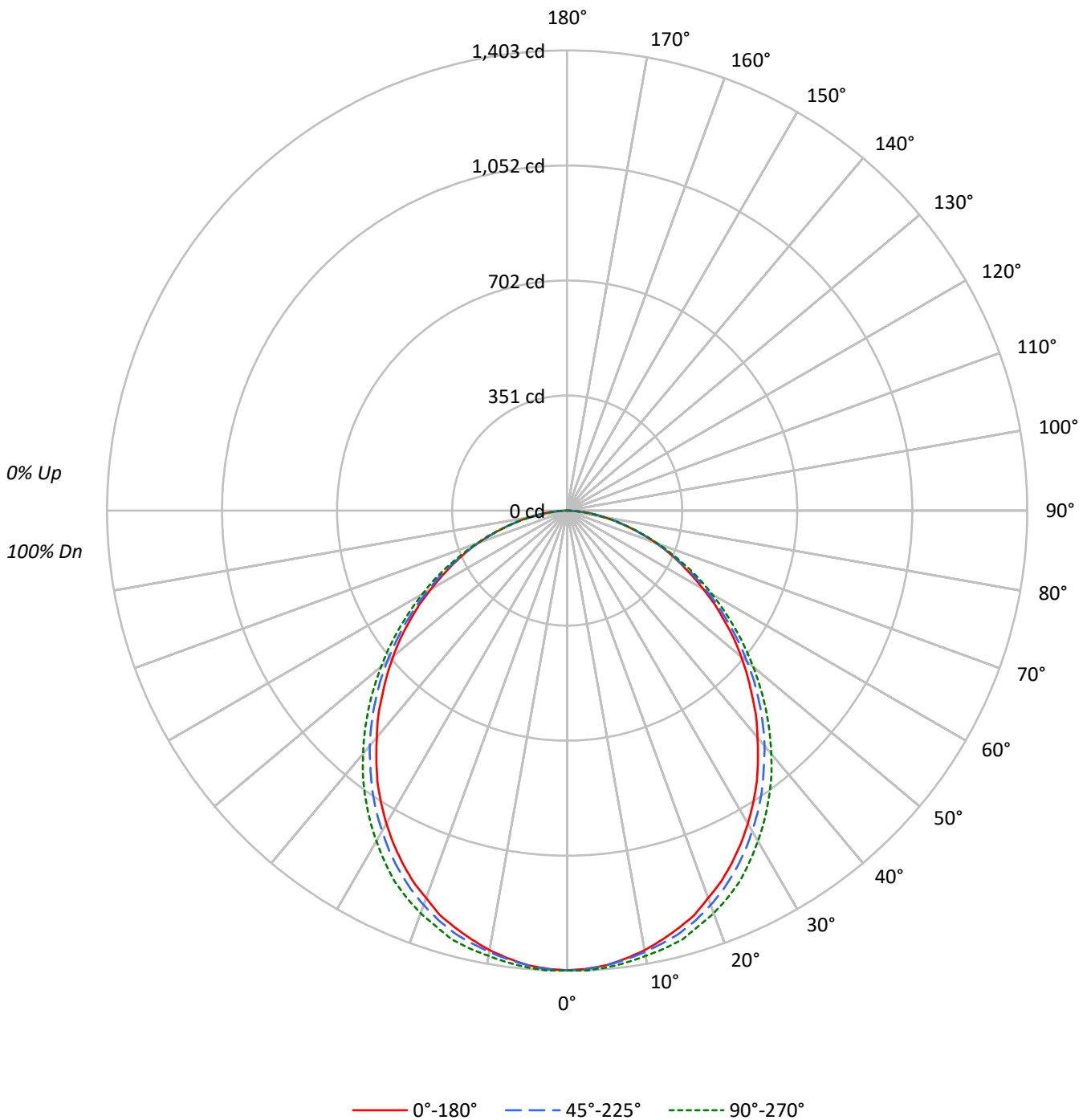
Input Watts (W): 32.457
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3772	3772	3772
5°	3757	3757	3777
10°	3719	3733	3767
15°	3669	3713	3772
20°	3600	3665	3741
25°	3523	3596	3701
30°	3424	3506	3616
35°	3313	3405	3521
40°	3171	3289	3400
45°	3033	3153	3261
50°	2901	2997	3100
55°	2746	2829	2928
60°	2581	2647	2742
65°	2425	2470	2548
70°	2261	2261	2303
75°	2016	2016	2016
80°	1776	1722	1722
85°	1414	1362	1250



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.2	3.7
10°-20°	375.8	10.6
20°-30°	558.3	15.8
30°-40°	647.9	18.3
40°-50°	638.0	18.0
50°-60°	539.9	15.3
60°-70°	385.0	10.9
70°-80°	206.9	5.9
80°-90°	52.1	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°	1066.2	30.2
0°-40°	1714.1	48.5
0°-60°	2891.9	81.8
0°-90°	3536.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3536.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1402	1402	1402	1402	1402	
5°	1391	1391	1391	1396	1398	132
15°	1317	1320	1333	1345	1354	371
25°	1186	1190	1211	1234	1246	546
35°	1008	1010	1037	1061	1072	629
45°	797	802	829	848	857	616
55°	585	587	603	619	624	524
65°	381	381	388	395	400	378
75°	194	192	194	194	194	208
85°	46	44	44	40	40	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1401.6	1401.6	1401.6	1401.6	1401.6
2.5°	1398.1	1398.1	1399.8	1401.6	1403.4
5°	1391.0	1391.0	1391.0	1396.3	1398.1
7.5°	1376.9	1378.7	1380.4	1385.7	1389.3
10°	1361.0	1362.8	1366.3	1375.1	1378.7
12.5°	1339.9	1345.2	1350.5	1362.8	1368.1
15°	1317.0	1320.5	1332.8	1345.2	1354.0
17.5°	1292.3	1294.0	1308.2	1325.8	1329.3
20°	1257.0	1262.3	1279.9	1297.6	1306.4
22.5°	1225.3	1228.8	1248.2	1271.1	1278.2
25°	1186.5	1190.0	1211.2	1234.1	1246.4
27.5°	1146.0	1149.5	1172.4	1197.1	1205.9
30°	1101.9	1105.4	1128.3	1154.8	1163.6
32.5°	1056.0	1059.6	1084.3	1107.2	1119.5
35°	1008.4	1010.2	1036.6	1061.3	1071.9
37.5°	955.6	960.8	985.5	1010.2	1022.5
40°	902.7	908.0	936.2	959.1	967.9
42.5°	853.3	860.3	883.3	904.4	913.2
45°	796.9	802.2	828.6	848.0	856.8
47.5°	745.8	751.0	774.0	793.4	798.6
50°	692.9	696.4	715.8	733.4	740.5
52.5°	640.0	641.7	659.4	677.0	682.3
55°	585.3	587.1	602.9	618.8	624.1
57.5°	534.2	534.2	548.3	560.6	565.9
60°	479.5	479.5	491.9	504.2	509.5
62.5°	428.4	428.4	440.8	449.6	456.6
65°	380.8	380.8	387.9	394.9	400.2
67.5°	335.0	329.7	336.7	345.5	343.8
70°	287.4	282.1	287.4	290.9	292.7
72.5°	239.8	236.2	239.8	241.5	245.1
75°	193.9	192.2	193.9	193.9	193.9
77.5°	155.1	149.9	153.4	151.6	149.9
80°	114.6	112.8	111.1	109.3	111.1
82.5°	79.3	77.6	77.6	74.0	74.0
85°	45.8	44.1	44.1	40.5	40.5
87.5°	17.6	17.6	15.9	15.9	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)