

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: P296531

Luminaire Tested: **22RLN-LD5-40-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296531
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-6500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3800.0 lumens
Efficiency: N/A
Efficacy: 113.2 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

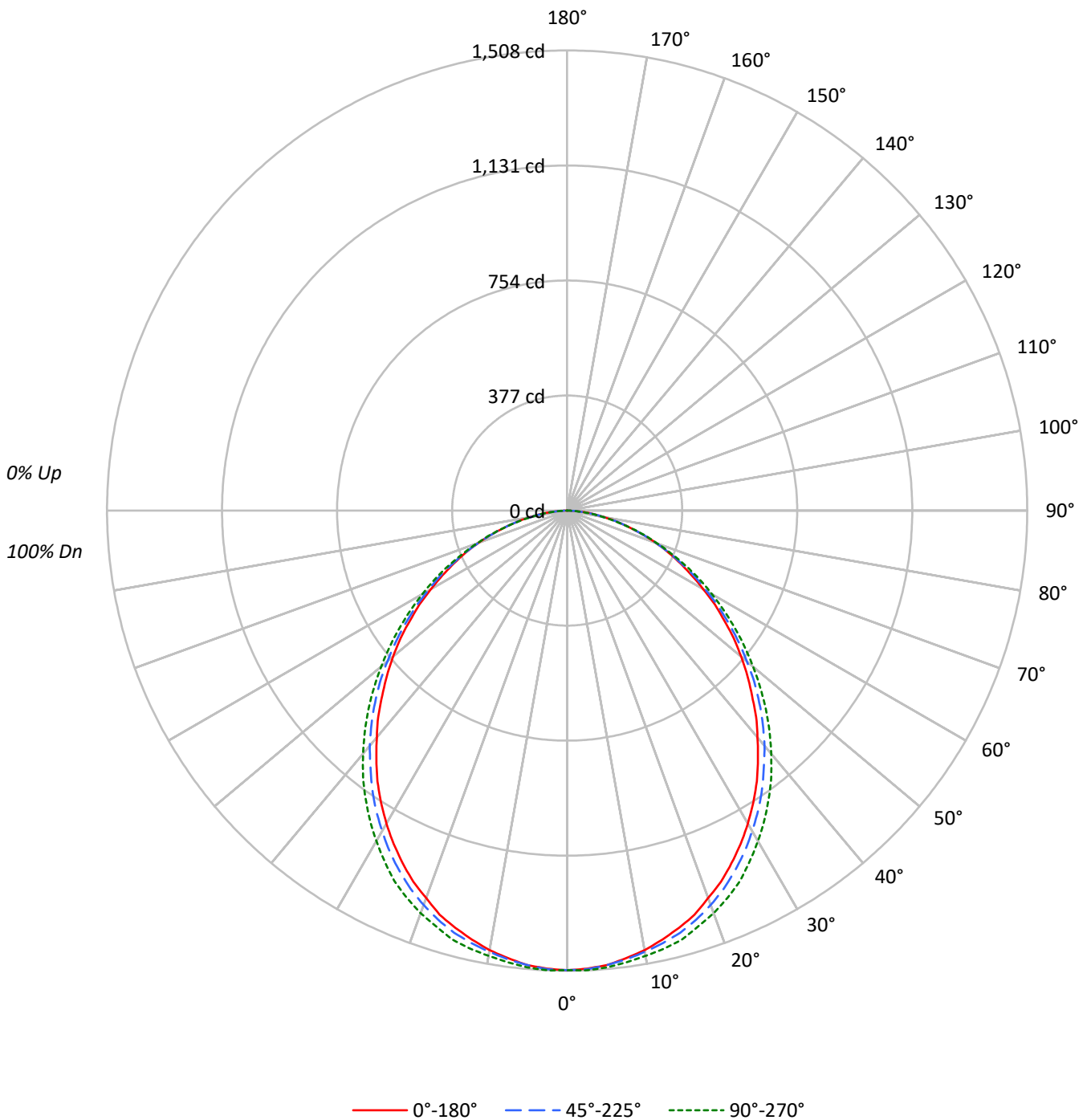
Input Watts (W): 33.573
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4053	4053	4053
5°	4038	4038	4058
10°	3997	4012	4048
15°	3943	3990	4054
20°	3869	3939	4020
25°	3786	3865	3977
30°	3679	3768	3886
35°	3560	3660	3784
40°	3408	3534	3654
45°	3259	3389	3504
50°	3117	3220	3331
55°	2951	3040	3147
60°	2773	2845	2947
65°	2606	2654	2739
70°	2430	2430	2474
75°	2167	2167	2167
80°	1909	1850	1850
85°	1522	1463	1346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.0	3.7
10°-20°	403.9	10.6
20°-30°	599.9	15.8
30°-40°	696.3	18.3
40°-50°	685.6	18.0
50°-60°	580.2	15.3
60°-70°	413.8	10.9
70°-80°	222.3	5.9
80°-90°	56.1	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°	1145.8	30.2
0°-40°	1842.1	48.5
0°-60°	3107.9	81.8
0°-90°	3800.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3800.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1506	1506	1506	1506	1506	
5°	1495	1495	1495	1501	1502	142
15°	1415	1419	1432	1446	1455	399
25°	1275	1279	1302	1326	1340	587
35°	1084	1086	1114	1141	1152	676
45°	856	862	890	911	921	662
55°	629	631	648	665	671	563
65°	409	409	417	424	430	406
75°	208	206	208	208	208	224
85°	49	47	47	44	44	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1506.2	1506.2	1506.2	1506.2	1506.2
2.5°	1502.4	1502.4	1504.3	1506.2	1508.1
5°	1494.9	1494.9	1494.9	1500.6	1502.4
7.5°	1479.7	1481.6	1483.5	1489.2	1493.0
10°	1462.7	1464.6	1468.3	1477.8	1481.6
12.5°	1439.9	1445.6	1451.3	1464.6	1470.2
15°	1415.3	1419.1	1432.3	1445.6	1455.1
17.5°	1388.8	1390.7	1405.8	1424.8	1428.6
20°	1350.9	1356.6	1375.5	1394.5	1403.9
22.5°	1316.8	1320.6	1341.4	1366.0	1373.6
25°	1275.1	1278.9	1301.6	1326.2	1339.5
27.5°	1231.5	1235.3	1259.9	1286.5	1295.9
30°	1184.1	1187.9	1212.6	1241.0	1250.5
32.5°	1134.9	1138.7	1165.2	1189.8	1203.1
35°	1083.7	1085.6	1114.0	1140.6	1151.9
37.5°	1026.9	1032.6	1059.1	1085.6	1098.9
40°	970.1	975.7	1006.1	1030.7	1040.2
42.5°	917.0	924.6	949.2	971.9	981.4
45°	856.4	862.1	890.5	911.3	920.8
47.5°	801.4	807.1	831.7	852.6	858.3
50°	744.6	748.4	769.2	788.2	795.7
52.5°	687.8	689.6	708.6	727.5	733.2
55°	629.0	630.9	648.0	665.0	670.7
57.5°	574.1	574.1	589.2	602.5	608.2
60°	515.3	515.3	528.6	541.9	547.6
62.5°	460.4	460.4	473.7	483.1	490.7
65°	409.2	409.2	416.8	424.4	430.1
67.5°	360.0	354.3	361.9	371.3	369.5
70°	308.8	303.1	308.8	312.6	314.5
72.5°	257.7	253.9	257.7	259.6	263.4
75°	208.4	206.5	208.4	208.4	208.4
77.5°	166.7	161.0	164.8	162.9	161.0
80°	123.2	121.3	119.4	117.5	119.4
82.5°	85.3	83.4	83.4	79.6	79.6
85°	49.3	47.4	47.4	43.6	43.6
87.5°	18.9	18.9	17.1	17.1	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)