

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: P296389

Luminaire Tested: **22RLN-LD5-35-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296389
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-LD5-35-UNV-L83050-W2A1-U-3500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3540.0 lumens
Efficiency: N/A
Efficacy: 126.9 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

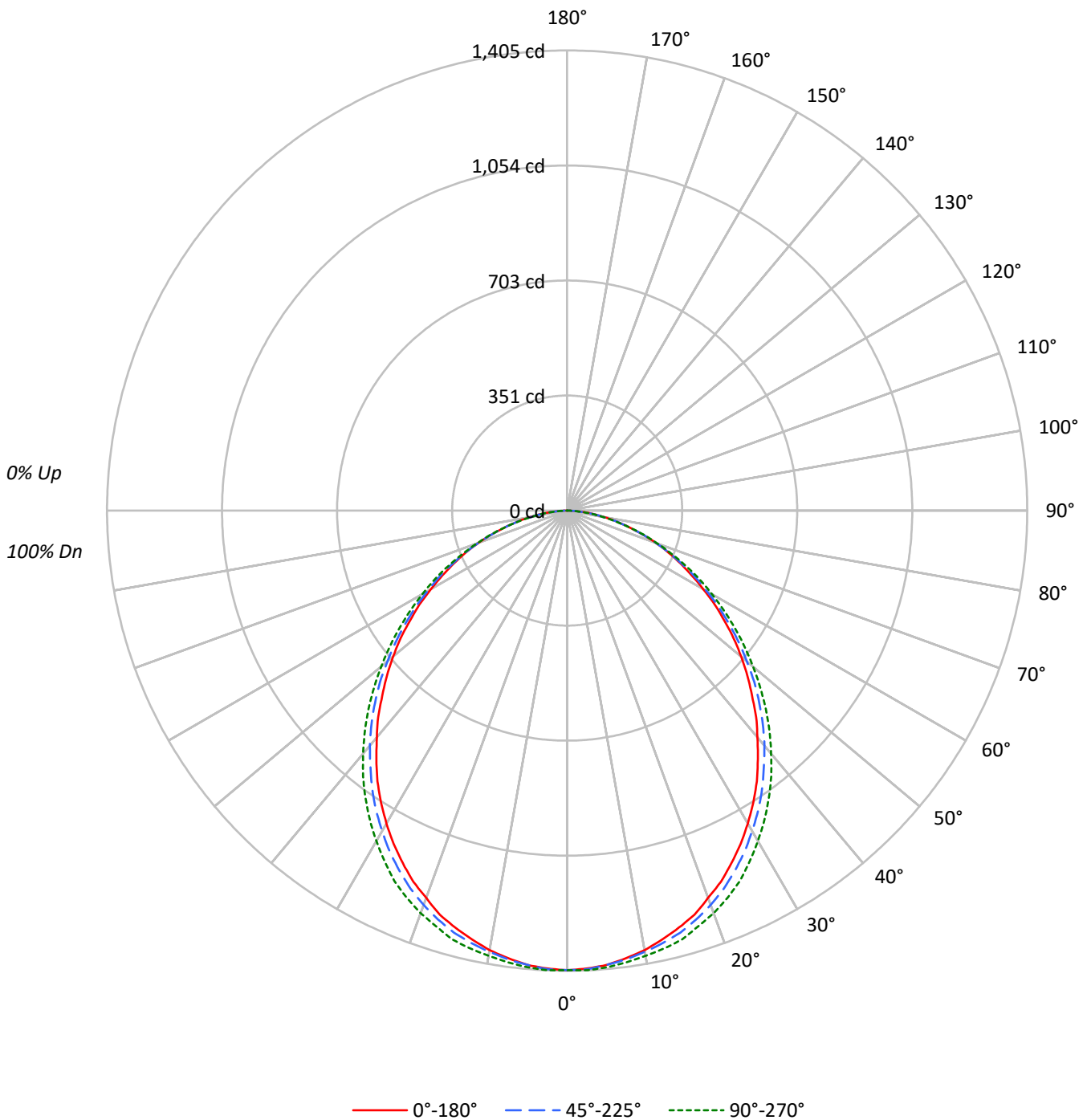
Input Watts (W): 27.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3776	3776	3776
5°	3762	3762	3781
10°	3723	3738	3771
15°	3673	3717	3776
20°	3604	3670	3745
25°	3527	3600	3705
30°	3428	3510	3620
35°	3317	3409	3525
40°	3175	3292	3404
45°	3036	3157	3264
50°	2904	3000	3103
55°	2749	2832	2931
60°	2584	2650	2745
65°	2427	2472	2551
70°	2264	2264	2305
75°	2019	2019	2019
80°	1777	1723	1723
85°	1417	1362	1254



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.3	3.7
10°-20°	376.2	10.6
20°-30°	558.9	15.8
30°-40°	648.6	18.3
40°-50°	638.7	18.0
50°-60°	540.5	15.3
60°-70°	385.5	10.9
70°-80°	207.1	5.9
80°-90°	52.2	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°	1067.4	30.2
0°-40°	1716.1	48.5
0°-60°	2895.2	81.8
0°-90°	3540.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3540.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1403	1403	1403	1403	1403	
5°	1393	1393	1393	1398	1400	132
15°	1318	1322	1334	1347	1356	372
25°	1188	1191	1213	1236	1248	547
35°	1010	1011	1038	1062	1073	630
45°	798	803	830	849	858	617
55°	586	588	604	620	625	525
65°	381	381	388	395	401	378
75°	194	192	194	194	194	208
85°	46	44	44	41	41	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1403.2	1403.2	1403.2	1403.2	1403.2
2.5°	1399.6	1399.6	1401.4	1403.2	1404.9
5°	1392.6	1392.6	1392.6	1397.9	1399.6
7.5°	1378.5	1380.2	1382.0	1387.3	1390.8
10°	1362.6	1364.3	1367.9	1376.7	1380.2
12.5°	1341.4	1346.7	1352.0	1364.3	1369.6
15°	1318.5	1322.0	1334.3	1346.7	1355.5
17.5°	1293.7	1295.5	1309.6	1327.3	1330.8
20°	1258.4	1263.7	1281.4	1299.0	1307.9
22.5°	1226.7	1230.2	1249.6	1272.6	1279.6
25°	1187.8	1191.4	1212.6	1235.5	1247.9
27.5°	1147.3	1150.8	1173.7	1198.4	1207.3
30°	1103.1	1106.7	1129.6	1156.1	1164.9
32.5°	1057.2	1060.8	1085.5	1108.4	1120.8
35°	1009.6	1011.3	1037.8	1062.5	1073.1
37.5°	956.6	961.9	986.6	1011.3	1023.7
40°	903.7	909.0	937.2	960.2	969.0
42.5°	854.3	861.3	884.3	905.4	914.3
45°	797.8	803.1	829.6	849.0	857.8
47.5°	746.6	751.9	774.8	794.3	799.5
50°	693.6	697.2	716.6	734.2	741.3
52.5°	640.7	642.5	660.1	677.8	683.1
55°	586.0	587.7	603.6	619.5	624.8
57.5°	534.8	534.8	548.9	561.3	566.6
60°	480.1	480.1	492.4	504.8	510.1
62.5°	428.9	428.9	441.3	450.1	457.1
65°	381.2	381.2	388.3	395.4	400.7
67.5°	335.4	330.1	337.1	345.9	344.2
70°	287.7	282.4	287.7	291.2	293.0
72.5°	240.0	236.5	240.0	241.8	245.3
75°	194.2	192.4	194.2	194.2	194.2
77.5°	155.3	150.0	153.6	151.8	150.0
80°	114.7	113.0	111.2	109.4	111.2
82.5°	79.4	77.7	77.7	74.1	74.1
85°	45.9	44.1	44.1	40.6	40.6
87.5°	17.7	17.7	15.9	15.9	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)