

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: P229587

Luminaire Tested: **22RLN-LD5-35-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229587
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36050)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-35-UNV-L840-CD1-U
Description: METALUX 2X2 RLN LED TROFFER
Light Source: (126)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3558.0 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.31
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

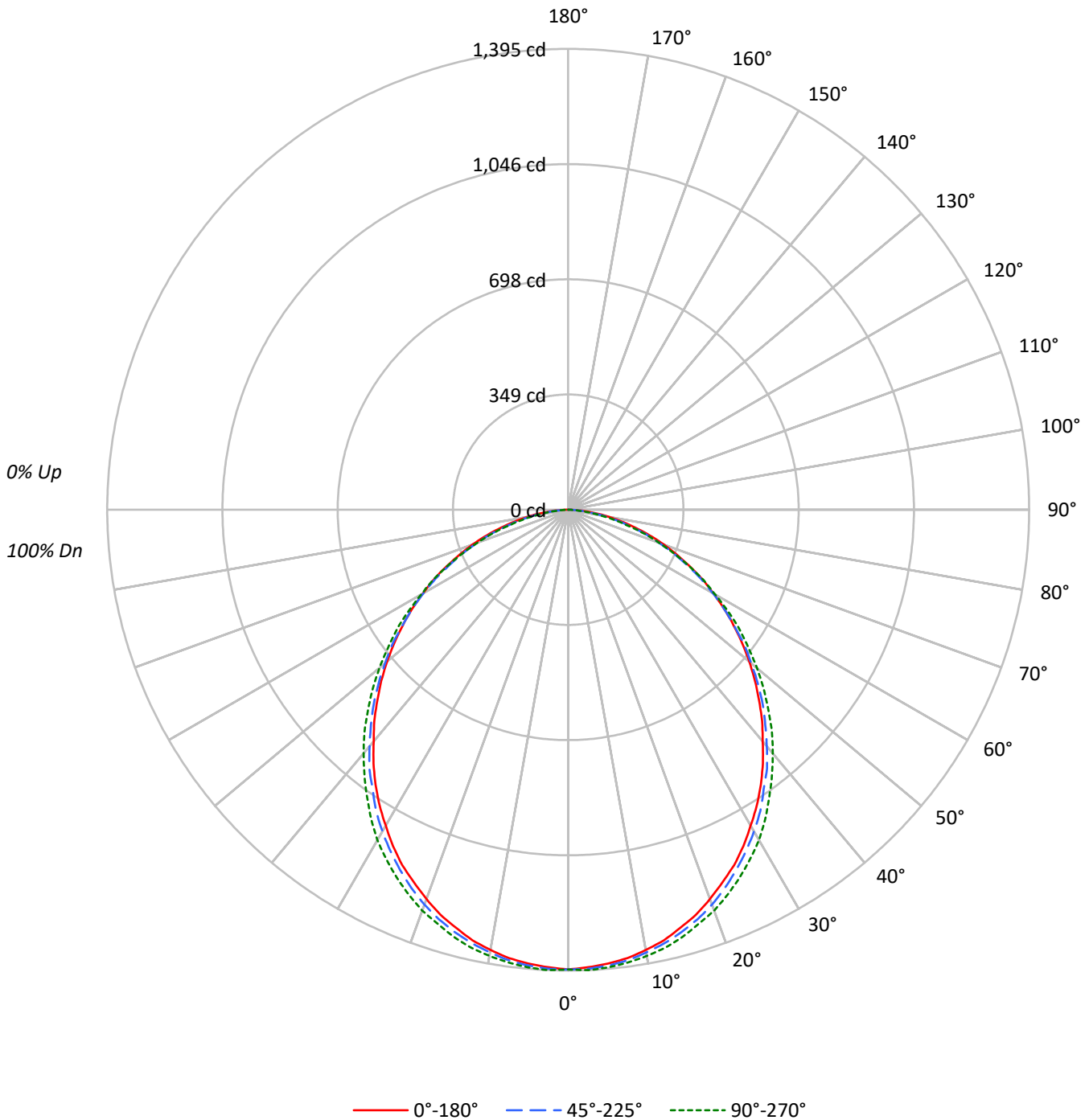
Input Watts (W): 30.57
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P229587

CATALOG NUMBER: 22RLN-LD5-35-UNV-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P229587

CATALOG NUMBER: 22RLN-LD5-35-UNV-L840-CD1-U

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	73	71
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	43		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38		49	42	38		48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34		45	38	34		44	38	33	32
9	58	44	36	31	56	44	36	31	43	36	31		42	35	30		41	35	30	28
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°	4457	4457	4457
5°	4435	4453	4471
10°	4401	4427	4460
15°	4345	4390	4439
20°	4274	4336	4401
25°	4197	4252	4340
30°	4083	4158	4271
35°	3973	4035	4149
40°	3829	3909	4027
45°	3699	3770	3877
50°	3563	3602	3714
55°	3413	3419	3539
60°	3251	3237	3287
65°	3077	3008	3051
70°	2883	2735	2745
75°	2610	2401	2331
80°	2309	2018	1872
85°	1867	1407	1202



TEST NUMBER: P229587

CATALOG NUMBER: 22RLN-LD5-35-UNV-L840-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.5	3.7
10°-20°	373.4	10.5
20°-30°	555.0	15.6
30°-40°	647.9	18.2
40°-50°	643.1	18.1
50°-60°	551.9	15.5
60°-70°	396.1	11.1
70°-80°	209.9	5.9
80°-90°	49.2	1.4
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°	1060.0	29.8
0°-40°	1707.9	48.0
0°-60°	2902.8	81.6
0°-90°	3558.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3558.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1392	1392	1392	1392	1392	
5°	1379	1382	1385	1390	1391	131
15°	1311	1315	1324	1334	1339	370
25°	1188	1191	1203	1222	1228	546
35°	1016	1020	1032	1055	1061	635
45°	817	820	832	847	856	631
55°	611	608	612	626	634	547
65°	406	396	397	400	403	403
75°	211	201	194	192	188	225
85°	51	44	38	33	33	60
90°	0	0	0	0	0	



TEST NUMBER: P229587

CATALOG NUMBER: 22RLN-LD5-35-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1391.8	1391.8	1391.8	1391.8	1391.8
2.5°	1386.2	1387.3	1390.7	1394.0	1395.2
5°	1379.4	1381.6	1385.0	1389.5	1390.7
7.5°	1369.2	1371.5	1376.0	1380.5	1382.8
10°	1353.4	1356.8	1361.3	1369.2	1371.5
12.5°	1335.4	1337.7	1344.4	1353.4	1358.0
15°	1310.6	1315.1	1324.1	1334.3	1338.8
17.5°	1285.8	1289.2	1300.4	1310.6	1314.0
20°	1254.2	1261.0	1272.2	1284.6	1291.4
22.5°	1220.4	1226.0	1239.5	1254.2	1261.0
25°	1187.6	1191.0	1203.4	1221.5	1228.3
27.5°	1148.2	1151.6	1165.1	1183.1	1192.2
30°	1104.2	1109.8	1124.5	1144.8	1154.9
32.5°	1062.5	1067.0	1081.6	1099.7	1109.8
35°	1016.2	1019.6	1032.0	1054.6	1061.3
37.5°	967.7	971.1	988.0	1004.9	1012.8
40°	915.8	920.3	935.0	951.9	963.2
42.5°	868.5	870.7	883.1	902.3	912.4
45°	816.6	820.0	832.4	847.0	856.1
47.5°	767.0	765.8	778.2	795.1	801.9
50°	715.1	712.8	723.0	739.9	745.5
52.5°	663.2	659.8	671.1	683.5	688.0
55°	611.3	607.9	612.4	626.0	633.9
57.5°	560.6	554.9	560.6	567.3	574.1
60°	507.5	498.5	505.3	513.2	513.2
62.5°	459.0	448.9	452.3	457.9	461.3
65°	406.0	395.9	397.0	400.4	402.6
67.5°	356.4	346.3	344.0	345.1	346.3
70°	307.9	296.6	292.1	289.9	293.2
72.5°	258.3	247.0	244.7	240.2	241.4
75°	210.9	200.8	194.0	191.7	188.4
77.5°	165.8	156.8	151.1	144.4	143.2
80°	125.2	113.9	109.4	104.9	101.5
82.5°	88.0	77.8	69.9	65.4	62.0
85°	50.8	44.0	38.3	32.7	32.7
87.5°	20.3	15.8	13.5	12.4	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)