

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: P296103

Luminaire Tested: **24RLN-LD5-42-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296103
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36059-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-42-RDP-UNV-L83050-W2A1-U-3000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3302.0 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

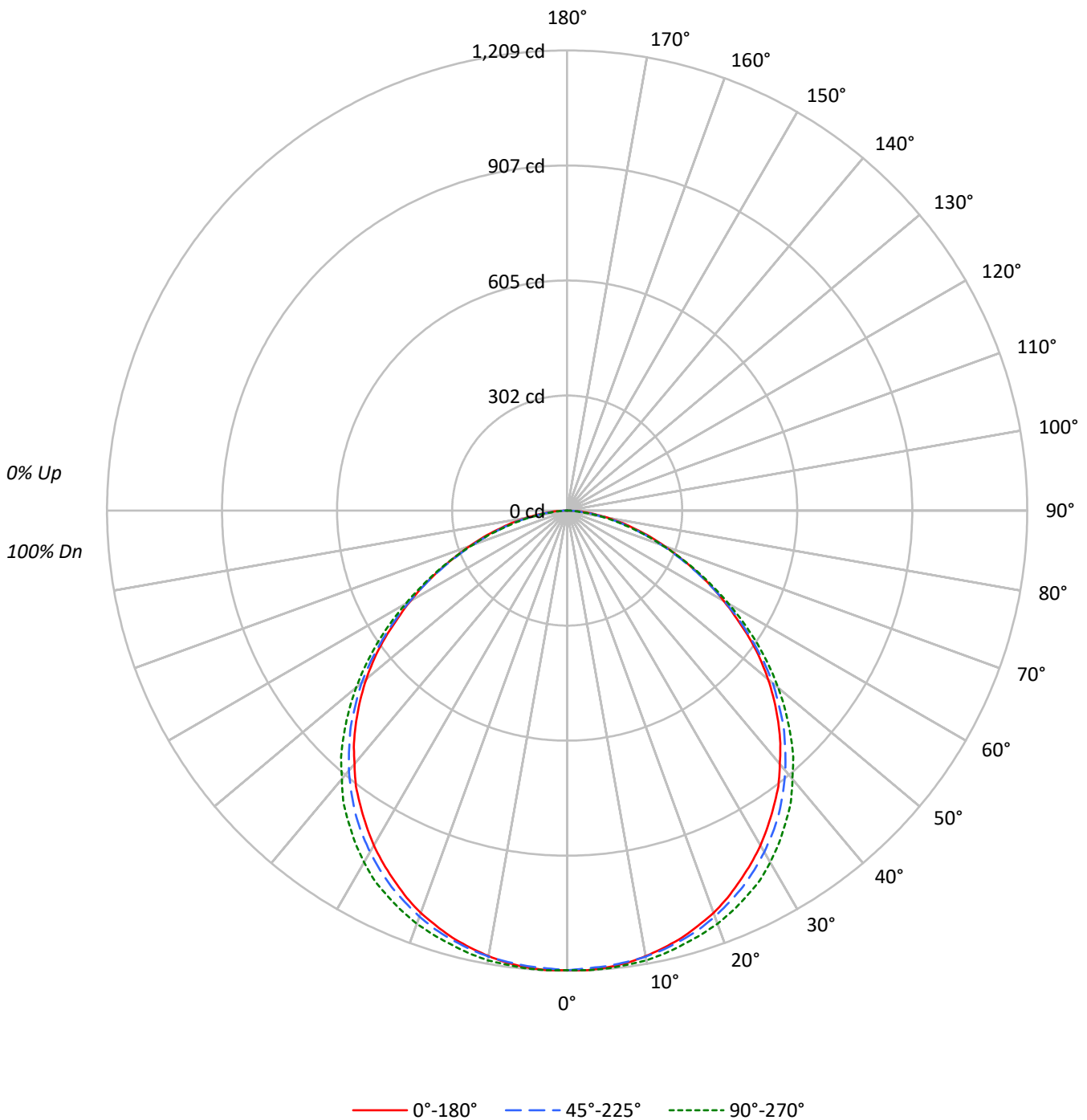
Input Watts (W): 29.016
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1625	1625	1625
5°	1628	1623	1631
10°	1624	1626	1639
15°	1619	1626	1644
20°	1611	1625	1654
25°	1594	1620	1659
30°	1578	1609	1658
35°	1555	1595	1644
40°	1527	1567	1617
45°	1492	1530	1578
50°	1442	1476	1515
55°	1372	1390	1431
60°	1281	1288	1321
65°	1176	1168	1196
70°	1069	1040	1045
75°	951	899	892
80°	825	738	718
85°	676	522	406



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.5	3.5
10°-20°	330.2	10.0
20°-30°	503.9	15.3
30°-40°	607.5	18.4
40°-50°	619.6	18.8
50°-60°	530.2	16.1
60°-70°	365.2	11.1
70°-80°	187.2	5.7
80°-90°	43.6	1.3
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°	948.6	28.7
0°-40°	1556.2	47.1
0°-60°	2705.9	81.9
0°-90°	3302.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3302.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1208	1208	1208	1208	1208	
5°	1205	1202	1201	1205	1208	115
15°	1162	1161	1168	1176	1180	328
25°	1074	1077	1091	1110	1117	495
35°	947	951	971	992	1001	592
45°	784	785	804	824	829	604
55°	585	581	592	605	610	522
65°	370	361	367	370	376	367
75°	183	175	173	173	172	197
85°	44	39	34	30	26	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1207.6	1207.6	1207.6	1207.6	1207.6
2.5°	1208.8	1206.3	1203.8	1206.3	1208.8
5°	1205.0	1202.5	1201.3	1205.0	1207.6
7.5°	1198.8	1196.3	1196.3	1201.3	1203.8
10°	1188.8	1187.5	1190.0	1195.0	1200.0
12.5°	1176.2	1176.2	1180.0	1186.3	1191.3
15°	1162.5	1161.2	1167.5	1176.2	1180.0
17.5°	1143.7	1144.9	1153.7	1163.7	1168.7
20°	1124.9	1126.1	1134.9	1148.7	1154.9
22.5°	1101.1	1103.6	1113.6	1131.1	1137.4
25°	1073.5	1077.3	1091.1	1109.8	1117.4
27.5°	1046.0	1049.7	1064.8	1086.0	1096.1
30°	1015.9	1020.9	1035.9	1058.5	1067.3
32.5°	982.1	985.8	1004.6	1027.2	1035.9
35°	947.0	950.8	970.8	992.1	1000.9
37.5°	911.9	911.9	932.0	957.0	965.8
40°	869.3	870.6	891.9	915.7	920.7
42.5°	829.3	829.3	848.0	870.6	879.4
45°	784.2	785.4	804.2	824.2	829.3
47.5°	737.8	737.8	754.1	772.9	777.9
50°	689.0	686.5	705.2	720.3	724.0
52.5°	638.9	635.1	650.1	662.7	667.7
55°	585.0	581.2	592.5	605.0	610.0
57.5°	528.6	523.6	536.1	547.4	549.9
60°	476.0	468.5	478.5	484.8	491.0
62.5°	423.4	414.6	422.1	425.9	430.9
65°	369.5	360.8	367.0	369.5	375.8
67.5°	318.2	311.9	313.2	316.9	319.4
70°	271.8	264.3	264.3	264.3	265.6
72.5°	229.2	218.0	216.7	218.0	218.0
75°	182.9	175.4	172.9	172.9	171.6
77.5°	146.6	136.5	135.3	132.8	130.3
80°	106.5	97.7	95.2	93.9	92.7
82.5°	73.9	66.4	63.9	61.4	57.6
85°	43.8	38.8	33.8	30.1	26.3
87.5°	16.3	15.0	12.5	11.3	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)