

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: P296309

Luminaire Tested: **24RLN-LD5-42-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296309
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-L92765-W2A1-U-6500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3316.0 lumens
Efficiency: N/A
Efficacy: 108.7 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

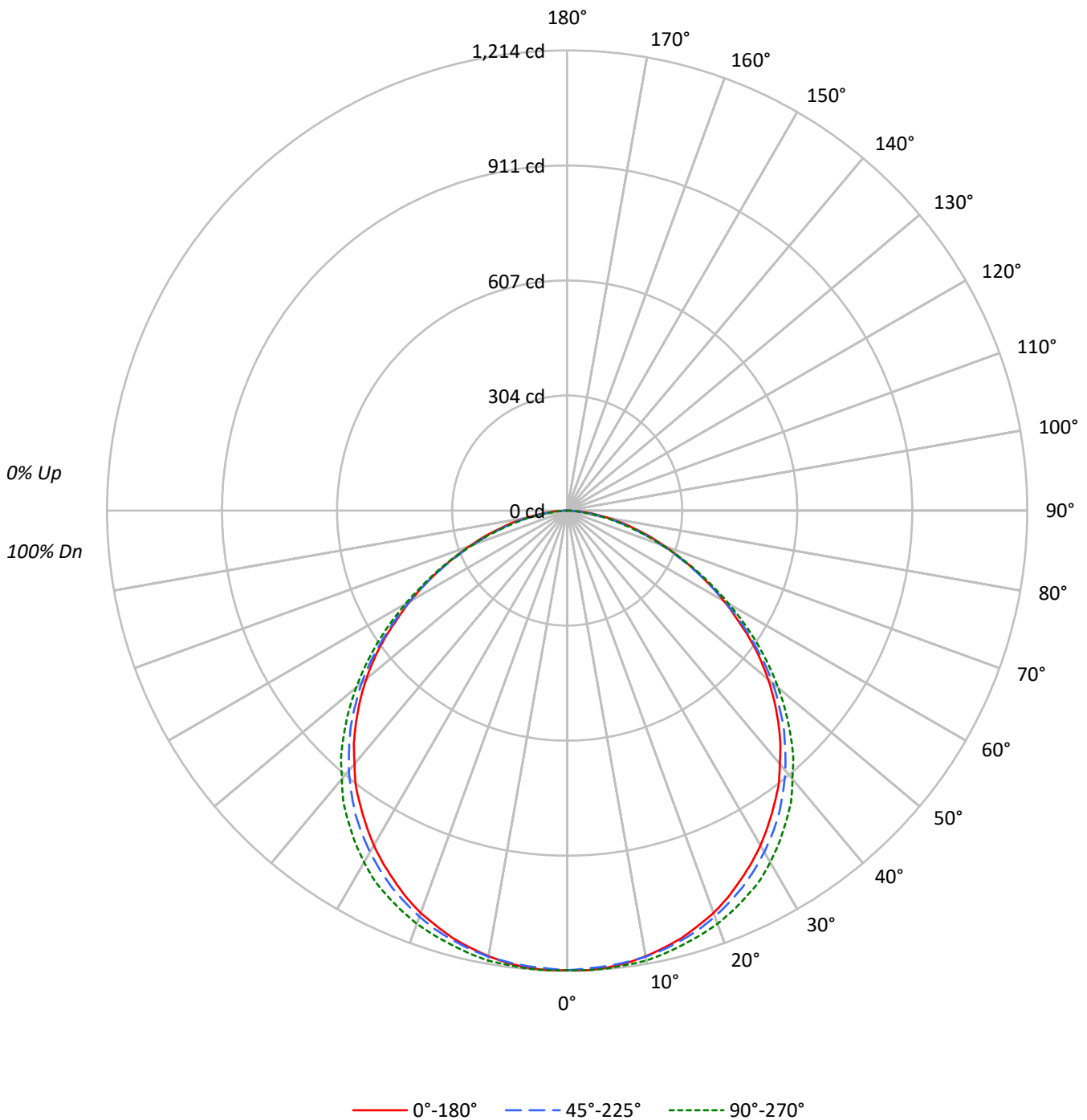
Input Watts (W): 30.504
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1632	1632	1632
5°	1635	1629	1638
10°	1631	1633	1646
15°	1626	1633	1651
20°	1617	1632	1661
25°	1601	1627	1666
30°	1585	1616	1665
35°	1562	1601	1651
40°	1533	1573	1624
45°	1498	1537	1585
50°	1448	1482	1522
55°	1378	1396	1437
60°	1286	1293	1327
65°	1181	1174	1202
70°	1074	1044	1049
75°	955	902	896
80°	828	741	721
85°	679	525	408



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.0	3.5
10°-20°	331.5	10.0
20°-30°	506.1	15.3
30°-40°	610.1	18.4
40°-50°	622.2	18.8
50°-60°	532.5	16.1
60°-70°	366.8	11.1
70°-80°	188.0	5.7
80°-90°	43.8	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°	952.6	28.7
0°-40°	1562.8	47.1
0°-60°	2717.4	81.9
0°-90°	3316.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3316.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1213	1213	1213	1213	1213	
5°	1210	1208	1206	1210	1213	115
15°	1167	1166	1172	1181	1185	329
25°	1078	1082	1096	1115	1122	497
35°	951	955	975	996	1005	595
45°	788	789	808	828	833	607
55°	588	584	595	608	613	524
65°	371	362	369	371	377	369
75°	184	176	174	174	172	198
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°	1212.7	1212.7	1212.7	1212.7	1212.7
2.5°	1213.9	1211.4	1208.9	1211.4	1213.9
5°	1210.2	1207.6	1206.4	1210.2	1212.7
7.5°	1203.9	1201.4	1201.4	1206.4	1208.9
10°	1193.8	1192.5	1195.1	1200.1	1205.1
12.5°	1181.2	1181.2	1185.0	1191.3	1196.3
15°	1167.4	1166.1	1172.4	1181.2	1185.0
17.5°	1148.5	1149.8	1158.6	1168.6	1173.7
20°	1129.6	1130.9	1139.7	1153.5	1159.8
22.5°	1105.7	1108.3	1118.3	1135.9	1142.2
25°	1078.1	1081.8	1095.7	1114.6	1122.1
27.5°	1050.4	1054.2	1069.3	1090.7	1100.7
30°	1020.2	1025.2	1040.3	1063.0	1071.8
32.5°	986.2	990.0	1008.9	1031.5	1040.3
35°	951.0	954.8	974.9	996.3	1005.1
37.5°	915.8	915.8	935.9	961.1	969.9
40°	873.0	874.3	895.7	919.6	924.6
42.5°	832.8	832.8	851.6	874.3	883.1
45°	787.5	788.7	807.6	827.7	832.8
47.5°	740.9	740.9	757.3	776.2	781.2
50°	691.9	689.4	708.2	723.3	727.1
52.5°	641.6	637.8	652.9	665.5	670.5
55°	587.5	583.7	595.0	607.6	612.6
57.5°	530.9	525.8	538.4	549.7	552.2
60°	478.0	470.5	480.5	486.8	493.1
62.5°	425.2	416.4	423.9	427.7	432.7
65°	371.1	362.3	368.6	371.1	377.4
67.5°	319.5	313.2	314.5	318.3	320.8
70°	273.0	265.4	265.4	265.4	266.7
72.5°	230.2	218.9	217.6	218.9	218.9
75°	183.7	176.1	173.6	173.6	172.3
77.5°	147.2	137.1	135.9	133.3	130.8
80°	106.9	98.1	95.6	94.3	93.1
82.5°	74.2	66.7	64.2	61.6	57.9
85°	44.0	39.0	34.0	30.2	26.4
87.5°	16.4	15.1	12.6	11.3	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)