

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: P296157

Luminaire Tested: **24RLN-LD5-36-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296157
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-LD5-36-RDP-UNV-L82765-W2A1-U-5000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3136.0 lumens
Efficiency: N/A
Efficacy: 121.7 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

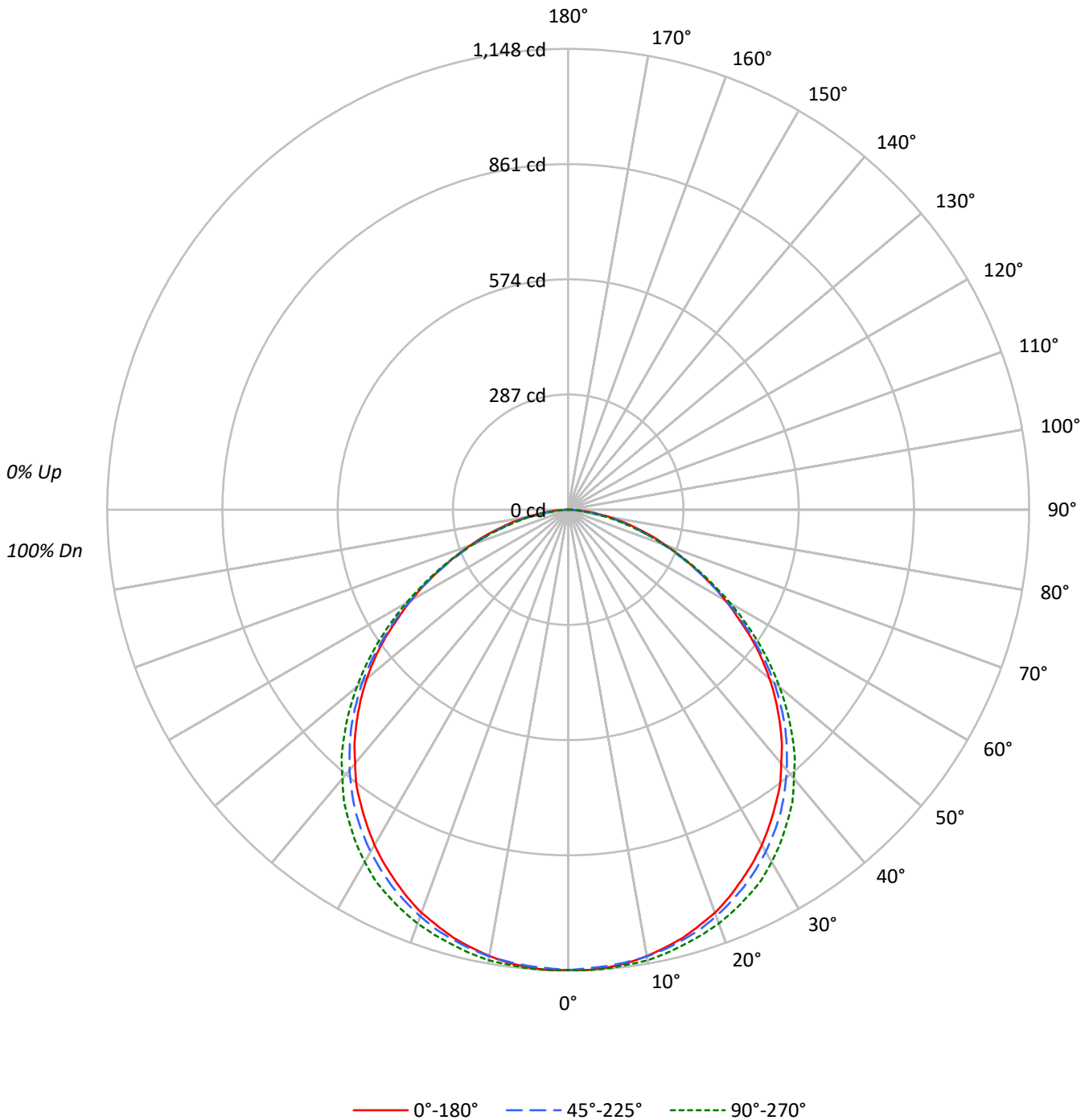
Input Watts (W): 25.761
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1543	1543	1543
5°	1546	1541	1549
10°	1542	1544	1557
15°	1538	1545	1561
20°	1530	1543	1571
25°	1514	1538	1575
30°	1499	1529	1575
35°	1477	1514	1561
40°	1450	1488	1536
45°	1417	1453	1499
50°	1370	1402	1439
55°	1303	1320	1359
60°	1217	1223	1255
65°	1117	1110	1136
70°	1016	987	992
75°	903	854	847
80°	783	700	682
85°	642	496	386



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.8	3.5
10°-20°	313.6	10.0
20°-30°	478.6	15.3
30°-40°	577.0	18.4
40°-50°	588.4	18.8
50°-60°	503.6	16.1
60°-70°	346.9	11.1
70°-80°	177.8	5.7
80°-90°	41.4	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°	900.9	28.7
0°-40°	1477.9	47.1
0°-60°	2569.9	81.9
0°-90°	3136.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3136.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1147	1147	1147	1147	1147	
5°	1144	1142	1141	1144	1147	109
15°	1104	1103	1109	1117	1121	311
25°	1020	1023	1036	1054	1061	470
35°	899	903	922	942	951	563
45°	745	746	764	783	788	574
55°	556	552	563	575	579	496
65°	351	343	349	351	357	349
75°	174	167	164	164	163	187
85°	42	37	32	29	25	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1146.8	1146.8	1146.8	1146.8	1146.8
2.5°	1148.0	1145.7	1143.3	1145.7	1148.0
5°	1144.5	1142.1	1140.9	1144.5	1146.8
7.5°	1138.5	1136.1	1136.1	1140.9	1143.3
10°	1129.0	1127.8	1130.2	1135.0	1139.7
12.5°	1117.1	1117.1	1120.7	1126.6	1131.4
15°	1104.0	1102.8	1108.8	1117.1	1120.7
17.5°	1086.2	1087.4	1095.7	1105.2	1110.0
20°	1068.3	1069.5	1077.8	1090.9	1096.9
22.5°	1045.7	1048.1	1057.6	1074.3	1080.2
25°	1019.6	1023.1	1036.2	1054.1	1061.2
27.5°	993.4	996.9	1011.2	1031.4	1041.0
30°	964.8	969.6	983.9	1005.3	1013.6
32.5°	932.7	936.3	954.1	975.5	983.9
35°	899.4	903.0	922.0	942.2	950.6
37.5°	866.1	866.1	885.1	908.9	917.2
40°	825.6	826.8	847.0	869.7	874.4
42.5°	787.6	787.6	805.4	826.8	835.2
45°	744.7	745.9	763.8	782.8	787.6
47.5°	700.7	700.7	716.2	734.0	738.8
50°	654.3	651.9	669.8	684.1	687.6
52.5°	606.7	603.2	617.4	629.3	634.1
55°	555.6	552.0	562.7	574.6	579.4
57.5°	502.0	497.3	509.2	519.9	522.3
60°	452.1	444.9	454.5	460.4	466.4
62.5°	402.1	393.8	400.9	404.5	409.2
65°	351.0	342.6	348.6	351.0	356.9
67.5°	302.2	296.2	297.4	301.0	303.4
70°	258.2	251.0	251.0	251.0	252.2
72.5°	217.7	207.0	205.8	207.0	207.0
75°	173.7	166.6	164.2	164.2	163.0
77.5°	139.2	129.7	128.5	126.1	123.7
80°	101.1	92.8	90.4	89.2	88.0
82.5°	70.2	63.1	60.7	58.3	54.7
85°	41.6	36.9	32.1	28.6	25.0
87.5°	15.5	14.3	11.9	10.7	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)