

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: P296155

Luminaire Tested: **24RLN-LD5-36-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296155
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-4000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3040.0 lumens
Efficiency: N/A
Efficacy: 119.3 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

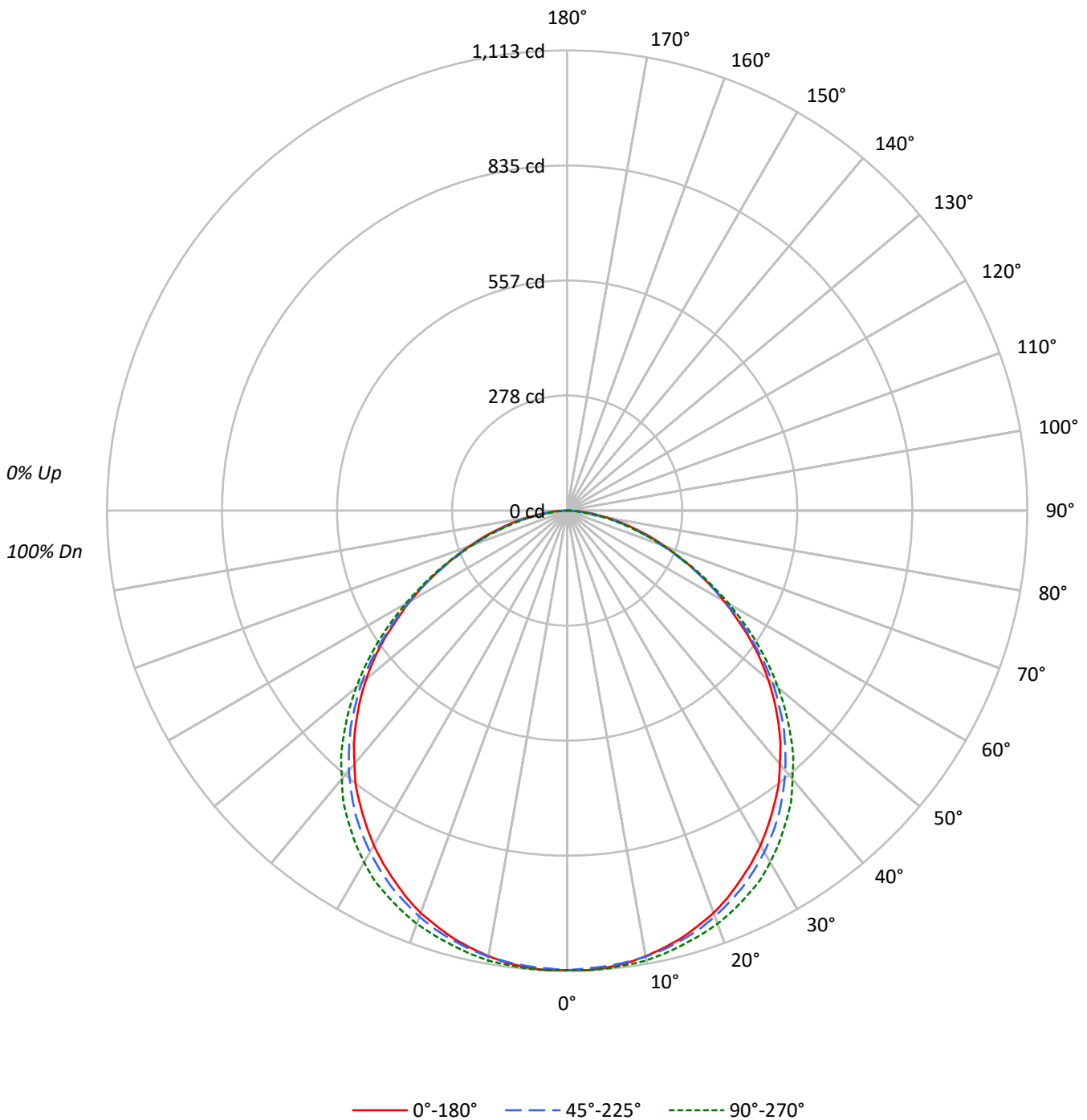
Input Watts (W): 25.482
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	73	71					71			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60					60			
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1496	1496	1496
5°	1498	1494	1501
10°	1495	1497	1509
15°	1491	1497	1513
20°	1483	1496	1522
25°	1467	1491	1527
30°	1453	1482	1527
35°	1432	1468	1514
40°	1406	1442	1489
45°	1374	1409	1453
50°	1328	1359	1395
55°	1263	1280	1317
60°	1179	1185	1217
65°	1083	1076	1102
70°	985	957	962
75°	875	827	821
80°	759	679	661
85°	624	480	374



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.4	3.5
10°-20°	304.0	10.0
20°-30°	464.0	15.3
30°-40°	559.3	18.4
40°-50°	570.4	18.8
50°-60°	488.2	16.1
60°-70°	336.2	11.1
70°-80°	172.4	5.7
80°-90°	40.1	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°	873.3	28.7
0°-40°	1432.7	47.1
0°-60°	2491.3	81.9
0°-90°	3040.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3040.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1112	1112	1112	1112	1112	
5°	1109	1107	1106	1109	1112	105
15°	1070	1069	1075	1083	1086	302
25°	988	992	1004	1022	1029	456
35°	872	875	894	913	922	545
45°	722	723	740	759	764	556
55°	539	535	546	557	562	480
65°	340	332	338	340	346	338
75°	168	162	159	159	158	181
85°	40	36	31	28	24	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1111.7	1111.7	1111.7	1111.7	1111.7
2.5°	1112.9	1110.6	1108.3	1110.6	1112.9
5°	1109.4	1107.1	1106.0	1109.4	1111.7
7.5°	1103.7	1101.4	1101.4	1106.0	1108.3
10°	1094.4	1093.3	1095.6	1100.2	1104.8
12.5°	1082.9	1082.9	1086.4	1092.1	1096.7
15°	1070.2	1069.1	1074.8	1082.9	1086.4
17.5°	1052.9	1054.1	1062.1	1071.4	1076.0
20°	1035.6	1036.8	1044.9	1057.5	1063.3
22.5°	1013.7	1016.0	1025.2	1041.4	1047.2
25°	988.3	991.8	1004.5	1021.8	1028.7
27.5°	963.0	966.4	980.3	999.9	1009.1
30°	935.3	939.9	953.7	974.5	982.6
32.5°	904.2	907.6	924.9	945.7	953.7
35°	871.9	875.3	893.8	913.4	921.5
37.5°	839.6	839.6	858.0	881.1	889.2
40°	800.4	801.5	821.1	843.0	847.6
42.5°	763.5	763.5	780.8	801.5	809.6
45°	721.9	723.1	740.4	758.8	763.5
47.5°	679.3	679.3	694.3	711.6	716.2
50°	634.3	632.0	649.3	663.1	666.6
52.5°	588.2	584.7	598.5	610.1	614.7
55°	538.6	535.1	545.5	557.0	561.6
57.5°	486.7	482.1	493.6	504.0	506.3
60°	438.2	431.3	440.5	446.3	452.1
62.5°	389.8	381.7	388.6	392.1	396.7
65°	340.2	332.1	337.9	340.2	346.0
67.5°	292.9	287.2	288.3	291.8	294.1
70°	250.3	243.3	243.3	243.3	244.5
72.5°	211.0	200.7	199.5	200.7	200.7
75°	168.4	161.5	159.1	159.1	158.0
77.5°	134.9	125.7	124.6	122.2	119.9
80°	98.0	90.0	87.6	86.5	85.3
82.5°	68.0	61.1	58.8	56.5	53.0
85°	40.4	35.8	31.1	27.7	24.2
87.5°	15.0	13.8	11.5	10.4	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)