

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: P296298

Luminaire Tested: **24RLN-LD5-36-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296298
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-L92765-W2A1-U-5500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2859.0 lumens
Efficiency: N/A
Efficacy: 110.2 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

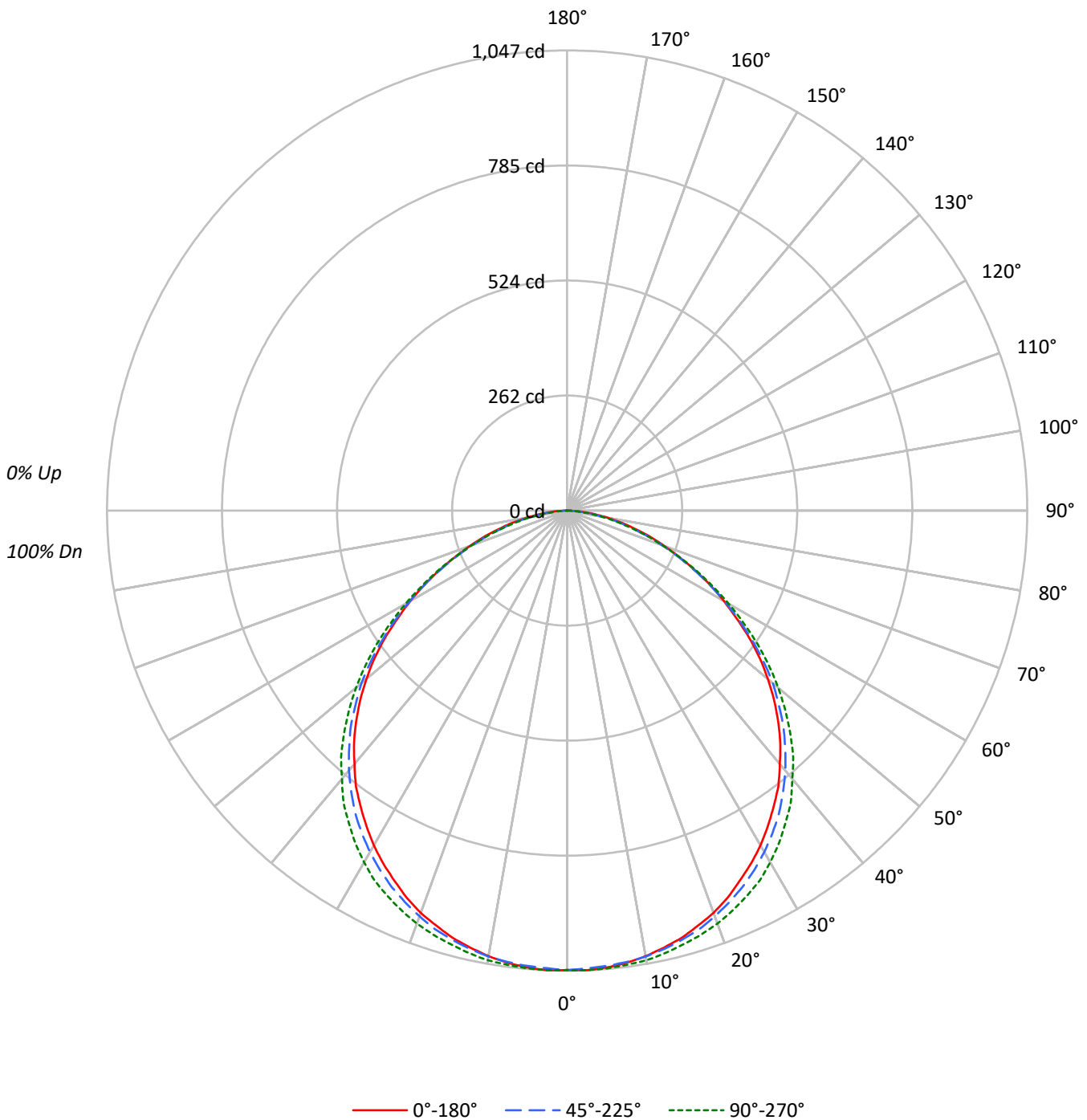
Input Watts (W): 25.947
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1407	1407	1407
5°	1409	1405	1412
10°	1406	1408	1420
15°	1402	1408	1423
20°	1395	1407	1432
25°	1380	1402	1436
30°	1367	1394	1436
35°	1347	1381	1423
40°	1322	1356	1400
45°	1292	1325	1366
50°	1249	1278	1312
55°	1188	1203	1239
60°	1109	1115	1144
65°	1019	1012	1036
70°	926	900	904
75°	823	778	773
80°	714	638	622
85°	587	452	352



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.2	3.5
10°-20°	285.9	10.0
20°-30°	436.3	15.3
30°-40°	526.0	18.4
40°-50°	536.4	18.8
50°-60°	459.1	16.1
60°-70°	316.2	11.1
70°-80°	162.1	5.7
80°-90°	37.7	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°	821.3	28.7
0°-40°	1347.4	47.1
0°-60°	2342.9	81.9
0°-90°	2859.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2859.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1046	1046	1046	1046	1046	
5°	1043	1041	1040	1043	1046	99
15°	1006	1005	1011	1018	1022	284
25°	930	933	945	961	968	429
35°	820	823	841	859	867	513
45°	679	680	696	714	718	523
55°	506	503	513	524	528	452
65°	320	312	318	320	325	318
75°	158	152	150	150	149	171
85°	38	34	29	26	23	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1045.5	1045.5	1045.5	1045.5	1045.5
2.5°	1046.6	1044.5	1042.3	1044.5	1046.6
5°	1043.4	1041.2	1040.1	1043.4	1045.5
7.5°	1038.0	1035.8	1035.8	1040.1	1042.3
10°	1029.3	1028.2	1030.4	1034.7	1039.0
12.5°	1018.4	1018.4	1021.7	1027.1	1031.4
15°	1006.5	1005.4	1010.8	1018.4	1021.7
17.5°	990.2	991.3	998.9	1007.6	1011.9
20°	974.0	975.0	982.6	994.6	1000.0
22.5°	953.4	955.5	964.2	979.4	984.8
25°	929.5	932.7	944.7	960.9	967.5
27.5°	905.6	908.9	921.9	940.3	949.0
30°	879.6	883.9	897.0	916.5	924.1
32.5°	850.3	853.6	869.8	889.4	897.0
35°	820.0	823.2	840.6	859.0	866.6
37.5°	789.6	789.6	806.9	828.6	836.2
40°	752.7	753.8	772.2	792.8	797.2
42.5°	718.0	718.0	734.3	753.8	761.4
45°	679.0	680.0	696.3	713.7	718.0
47.5°	638.8	638.8	652.9	669.2	673.5
50°	596.5	594.4	610.6	623.6	626.9
52.5°	553.1	549.9	562.9	573.7	578.1
55°	506.5	503.3	513.0	523.9	528.2
57.5°	457.7	453.4	464.2	474.0	476.1
60°	412.1	405.6	414.3	419.7	425.2
62.5°	366.6	359.0	365.5	368.8	373.1
65°	320.0	312.4	317.8	320.0	325.4
67.5°	275.5	270.1	271.1	274.4	276.6
70°	235.4	228.8	228.8	228.8	229.9
72.5°	198.5	188.7	187.6	188.7	188.7
75°	158.4	151.8	149.7	149.7	148.6
77.5°	126.9	118.2	117.1	115.0	112.8
80°	92.2	84.6	82.4	81.3	80.3
82.5°	64.0	57.5	55.3	53.1	49.9
85°	38.0	33.6	29.3	26.0	22.8
87.5°	14.1	13.0	10.8	9.8	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)