

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: P296289

Luminaire Tested: **24RLN-LD5-31-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296289
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-LD5-31-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: 2413.0 lumens
Efficiency: N/A
Efficacy: 110.9 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

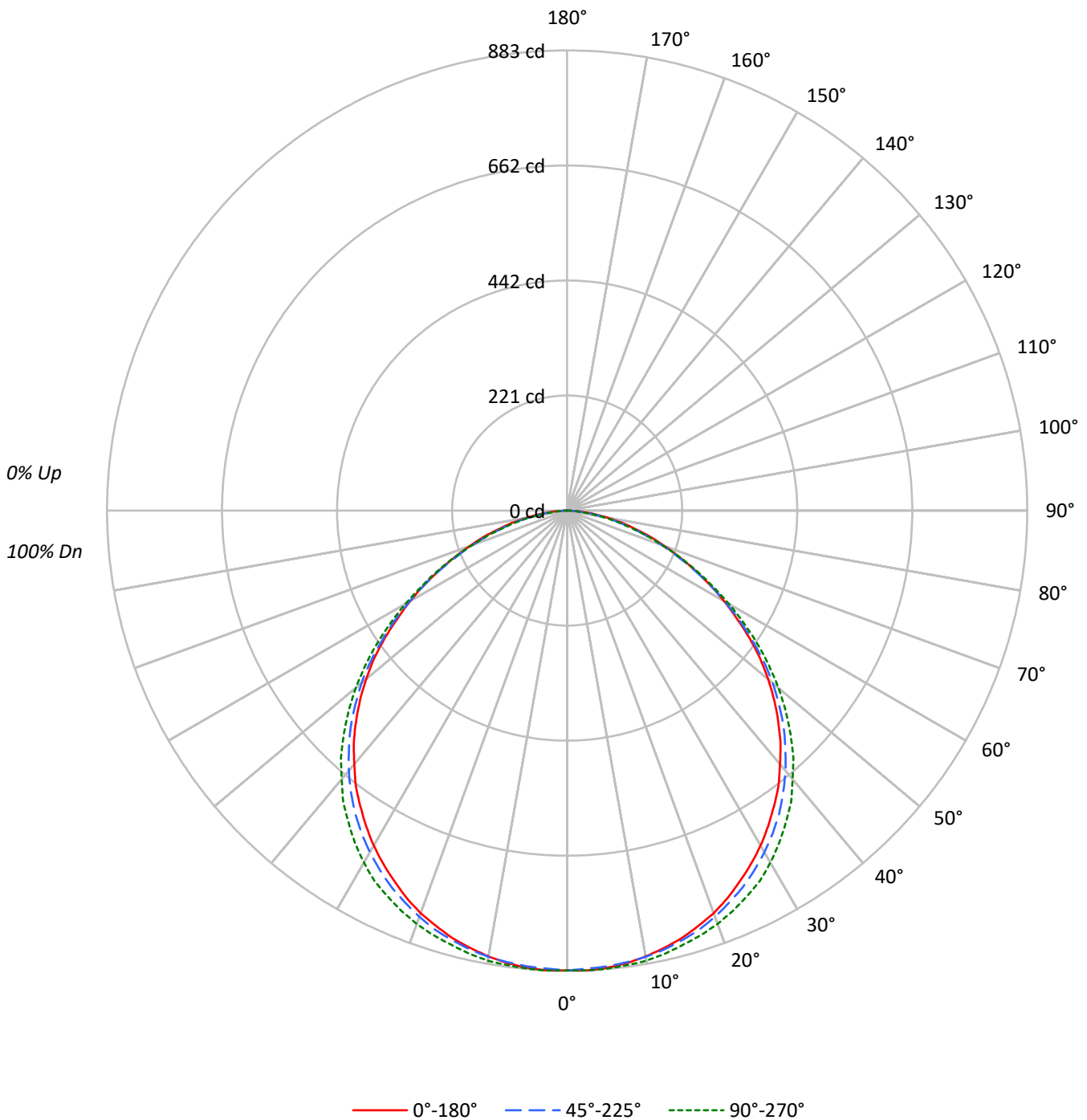
Input Watts (W): 21.762
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1187	1187	1187
5°	1189	1186	1192
10°	1187	1188	1198
15°	1183	1188	1201
20°	1177	1188	1208
25°	1165	1184	1212
30°	1153	1176	1212
35°	1137	1165	1201
40°	1116	1145	1182
45°	1090	1118	1153
50°	1054	1079	1108
55°	1003	1016	1046
60°	936	941	966
65°	860	854	874
70°	781	760	764
75°	695	657	652
80°	603	539	525
85°	494	381	296



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.7	3.5
10°-20°	241.3	10.0
20°-30°	368.3	15.3
30°-40°	444.0	18.4
40°-50°	452.8	18.8
50°-60°	387.5	16.1
60°-70°	266.9	11.1
70°-80°	136.8	5.7
80°-90°	31.9	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°	693.2	28.7
0°-40°	1137.2	47.1
0°-60°	1977.4	81.9
0°-90°	2413.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2413.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	882	882	882	882	882	
5°	881	879	878	881	882	84
15°	850	849	853	860	862	240
25°	784	787	797	811	816	362
35°	692	695	709	725	731	433
45°	573	574	588	602	606	442
55°	428	425	433	442	446	381
65°	270	264	268	270	275	268
75°	134	128	126	126	125	144
85°	32	28	25	22	19	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	882.4	882.4	882.4	882.4	882.4
2.5°	883.4	881.5	879.7	881.5	883.4
5°	880.6	878.8	877.9	880.6	882.4
7.5°	876.0	874.2	874.2	877.9	879.7
10°	868.7	867.8	869.6	873.3	877.0
12.5°	859.6	859.6	862.3	866.9	870.5
15°	849.5	848.6	853.2	859.6	862.3
17.5°	835.8	836.7	843.1	850.4	854.1
20°	822.0	822.9	829.4	839.4	844.0
22.5°	804.6	806.5	813.8	826.6	831.2
25°	784.5	787.2	797.3	811.0	816.5
27.5°	764.4	767.1	778.1	793.6	801.0
30°	742.4	746.0	757.0	773.5	779.9
32.5°	717.7	720.4	734.1	750.6	757.0
35°	692.0	694.8	709.4	725.0	731.4
37.5°	666.4	666.4	681.1	699.4	705.8
40°	635.3	636.2	651.8	669.2	672.8
42.5°	606.0	606.0	619.7	636.2	642.6
45°	573.0	574.0	587.7	602.3	606.0
47.5°	539.2	539.2	551.1	564.8	568.5
50°	503.5	501.6	515.4	526.4	529.1
52.5°	466.9	464.1	475.1	484.2	487.9
55°	427.5	424.7	433.0	442.1	445.8
57.5°	386.3	382.6	391.8	400.0	401.9
60°	347.9	342.4	349.7	354.3	358.8
62.5°	309.4	303.0	308.5	311.2	314.9
65°	270.0	263.6	268.2	270.0	274.6
67.5°	232.5	227.9	228.8	231.6	233.4
70°	198.6	193.1	193.1	193.1	194.1
72.5°	167.5	159.3	158.4	159.3	159.3
75°	133.6	128.2	126.3	126.3	125.4
77.5°	107.1	99.8	98.9	97.0	95.2
80°	77.8	71.4	69.6	68.7	67.7
82.5°	54.0	48.5	46.7	44.9	42.1
85°	32.0	28.4	24.7	22.0	19.2
87.5°	11.9	11.0	9.2	8.2	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)