

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: P296149

Luminaire Tested: **24RLN-LD5-31-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296149
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-L82765-W2A1-U-5500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2673.0 lumens
Efficiency: N/A
Efficacy: 122.8 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

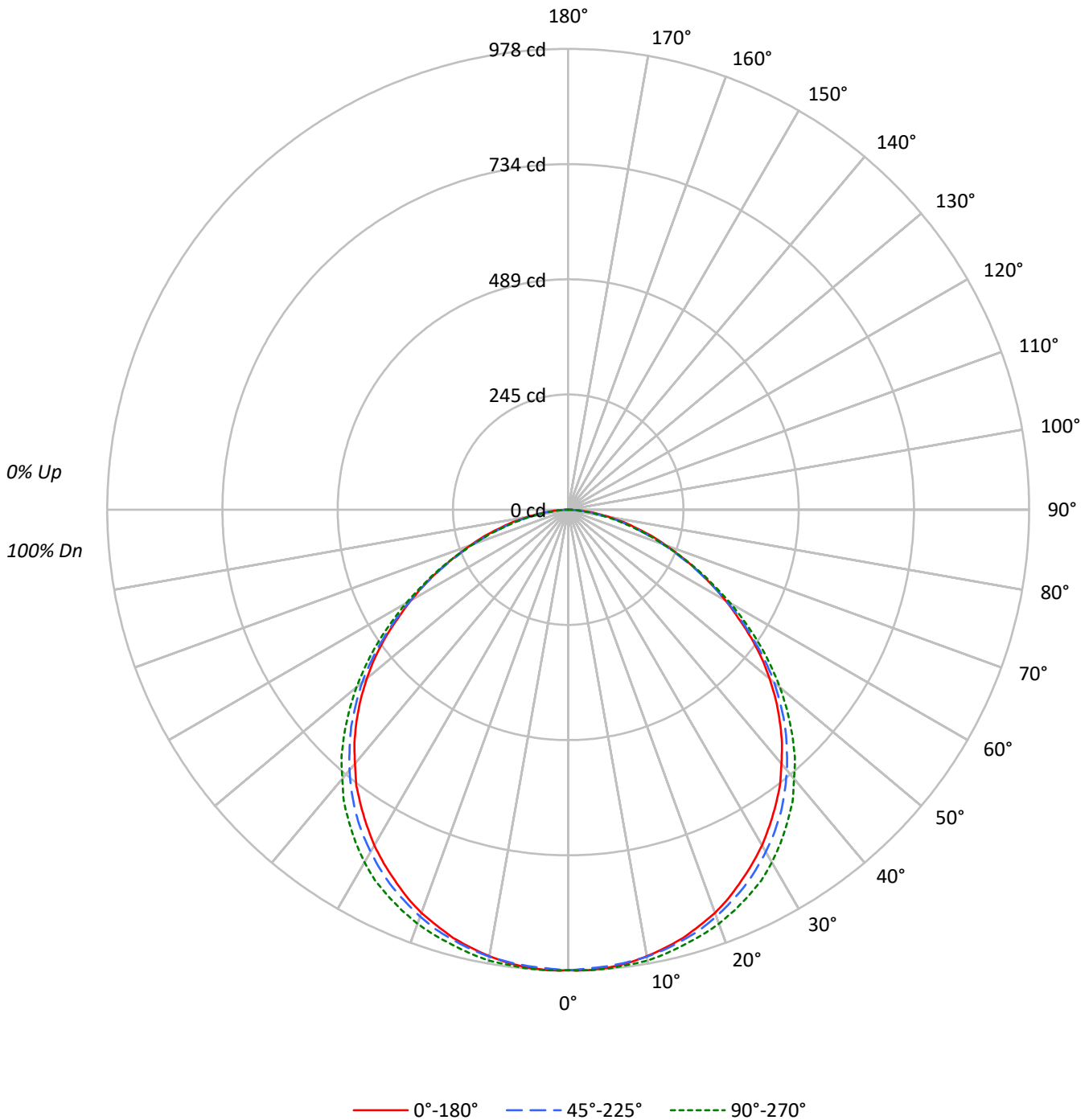
Input Watts (W): 21.762
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1315	1315	1315
5°	1318	1313	1320
10°	1315	1316	1327
15°	1311	1316	1331
20°	1304	1315	1339
25°	1290	1311	1343
30°	1278	1303	1342
35°	1259	1291	1331
40°	1236	1268	1309
45°	1208	1239	1277
50°	1167	1195	1227
55°	1111	1125	1158
60°	1037	1042	1070
65°	952	946	968
70°	865	842	846
75°	769	727	722
80°	668	597	581
85°	548	423	329



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.7	3.5
10°-20°	267.3	10.0
20°-30°	408.0	15.3
30°-40°	491.8	18.4
40°-50°	501.5	18.8
50°-60°	429.2	16.1
60°-70°	295.7	11.1
70°-80°	151.6	5.7
80°-90°	35.3	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°	767.9	28.7
0°-40°	1259.7	47.1
0°-60°	2190.5	81.9
0°-90°	2673.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2673.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	978	978	978	978	978	
5°	976	974	972	976	978	93
15°	941	940	945	952	955	265
25°	869	872	883	898	904	401
35°	767	770	786	803	810	480
45°	635	636	651	667	671	489
55°	474	470	480	490	494	422
65°	299	292	297	299	304	297
75°	148	142	140	140	139	160
85°	36	31	27	24	21	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	977.5	977.5	977.5	977.5	977.5
2.5°	978.5	976.5	974.5	976.5	978.5
5°	975.5	973.5	972.5	975.5	977.5
7.5°	970.4	968.4	968.4	972.5	974.5
10°	962.3	961.3	963.3	967.4	971.4
12.5°	952.2	952.2	955.2	960.3	964.3
15°	941.0	940.0	945.1	952.2	955.2
17.5°	925.8	926.8	933.9	942.0	946.1
20°	910.6	911.6	918.7	929.9	934.9
22.5°	891.3	893.4	901.5	915.7	920.7
25°	869.0	872.1	883.2	898.4	904.5
27.5°	846.7	849.8	861.9	879.2	887.3
30°	822.4	826.4	838.6	856.9	864.0
32.5°	795.0	798.0	813.3	831.5	838.6
35°	766.6	769.6	785.9	803.1	810.2
37.5°	738.2	738.2	754.4	774.7	781.8
40°	703.7	704.8	722.0	741.3	745.3
42.5°	671.3	671.3	686.5	704.8	711.9
45°	634.8	635.8	651.0	667.2	671.3
47.5°	597.3	597.3	610.4	625.7	629.7
50°	557.7	555.7	570.9	583.1	586.1
52.5°	517.2	514.1	526.3	536.4	540.5
55°	473.6	470.5	479.6	489.8	493.8
57.5°	427.9	423.9	434.0	443.1	445.2
60°	385.3	379.2	387.4	392.4	397.5
62.5°	342.7	335.6	341.7	344.8	348.8
65°	299.1	292.0	297.1	299.1	304.2
67.5°	257.6	252.5	253.5	256.5	258.6
70°	220.0	214.0	214.0	214.0	215.0
72.5°	185.6	176.4	175.4	176.4	176.4
75°	148.0	142.0	139.9	139.9	138.9
77.5°	118.6	110.5	109.5	107.5	105.5
80°	86.2	79.1	77.1	76.1	75.0
82.5°	59.8	53.7	51.7	49.7	46.6
85°	35.5	31.4	27.4	24.3	21.3
87.5°	13.2	12.2	10.1	9.1	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)