

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: P296512

Luminaire Tested: **22RLN-LD5-31-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296512
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-31-UNV-L92765-W2A1-U-5700K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (252) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2965.0 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

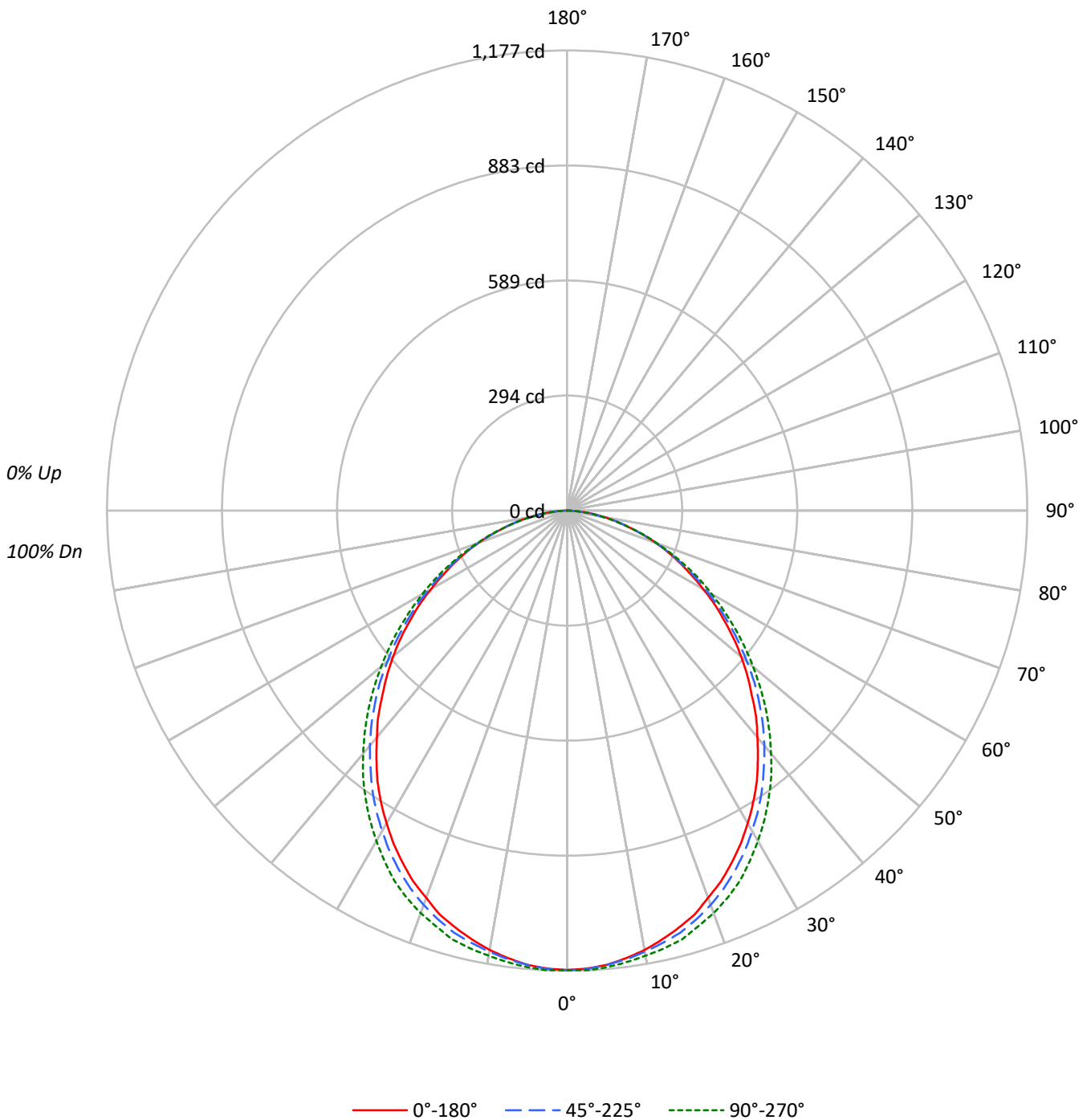
Input Watts (W): 25.203
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3163	3163	3163
5°	3151	3151	3167
10°	3119	3131	3159
15°	3076	3114	3163
20°	3018	3074	3137
25°	2954	3015	3103
30°	2871	2940	3032
35°	2778	2855	2953
40°	2659	2758	2851
45°	2543	2644	2734
50°	2432	2513	2599
55°	2303	2372	2455
60°	2164	2220	2299
65°	2033	2071	2137
70°	1896	1896	1931
75°	1691	1691	1691
80°	1489	1443	1443
85°	1186	1142	1050



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.8	3.7
10°-20°	315.1	10.6
20°-30°	468.1	15.8
30°-40°	543.3	18.3
40°-50°	534.9	18.0
50°-60°	452.7	15.3
60°-70°	322.8	10.9
70°-80°	173.5	5.9
80°-90°	43.7	1.5
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°	894.1	30.2
0°-40°	1437.3	48.5
0°-60°	2425.0	81.8
0°-90°	2965.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2965.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1175	1175	1175	1175	1175	
5°	1166	1166	1166	1171	1172	110
15°	1104	1107	1118	1128	1135	311
25°	995	998	1016	1035	1045	458
35°	846	847	869	890	899	528
45°	668	673	695	711	718	517
55°	491	492	506	519	523	440
65°	319	319	325	331	336	317
75°	163	161	163	163	163	175
85°	38	37	37	34	34	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1175.3	1175.3	1175.3	1175.3	1175.3
2.5°	1172.3	1172.3	1173.8	1175.3	1176.7
5°	1166.4	1166.4	1166.4	1170.8	1172.3
7.5°	1154.6	1156.0	1157.5	1162.0	1164.9
10°	1141.3	1142.7	1145.7	1153.1	1156.0
12.5°	1123.5	1128.0	1132.4	1142.7	1147.2
15°	1104.3	1107.3	1117.6	1128.0	1135.3
17.5°	1083.6	1085.1	1096.9	1111.7	1114.7
20°	1054.0	1058.5	1073.3	1088.0	1095.4
22.5°	1027.4	1030.4	1046.6	1065.9	1071.8
25°	994.9	997.9	1015.6	1034.8	1045.2
27.5°	960.9	963.9	983.1	1003.8	1011.2
30°	923.9	926.9	946.1	968.3	975.7
32.5°	885.5	888.5	909.2	928.4	938.7
35°	845.6	847.1	869.2	889.9	898.8
37.5°	801.2	805.7	826.4	847.1	857.4
40°	756.9	761.3	785.0	804.2	811.6
42.5°	715.5	721.4	740.6	758.4	765.8
45°	668.2	672.6	694.8	711.1	718.5
47.5°	625.3	629.8	649.0	665.2	669.7
50°	581.0	583.9	600.2	615.0	620.9
52.5°	536.6	538.1	552.9	567.7	572.1
55°	490.8	492.3	505.6	518.9	523.3
57.5°	447.9	447.9	459.8	470.1	474.5
60°	402.1	402.1	412.5	422.8	427.2
62.5°	359.2	359.2	369.6	377.0	382.9
65°	319.3	319.3	325.2	331.1	335.6
67.5°	280.9	276.4	282.4	289.7	288.3
70°	241.0	236.5	241.0	243.9	245.4
72.5°	201.1	198.1	201.1	202.5	205.5
75°	162.6	161.1	162.6	162.6	162.6
77.5°	130.1	125.7	128.6	127.1	125.7
80°	96.1	94.6	93.1	91.7	93.1
82.5°	66.5	65.0	65.0	62.1	62.1
85°	38.4	37.0	37.0	34.0	34.0
87.5°	14.8	14.8	13.3	13.3	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)