

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: P296707

Luminaire Tested: **22RLN-LD5-44-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296707
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36060-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-44-RDP-UNV-L92765-W2A1-U-5700K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3353.0 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.38 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

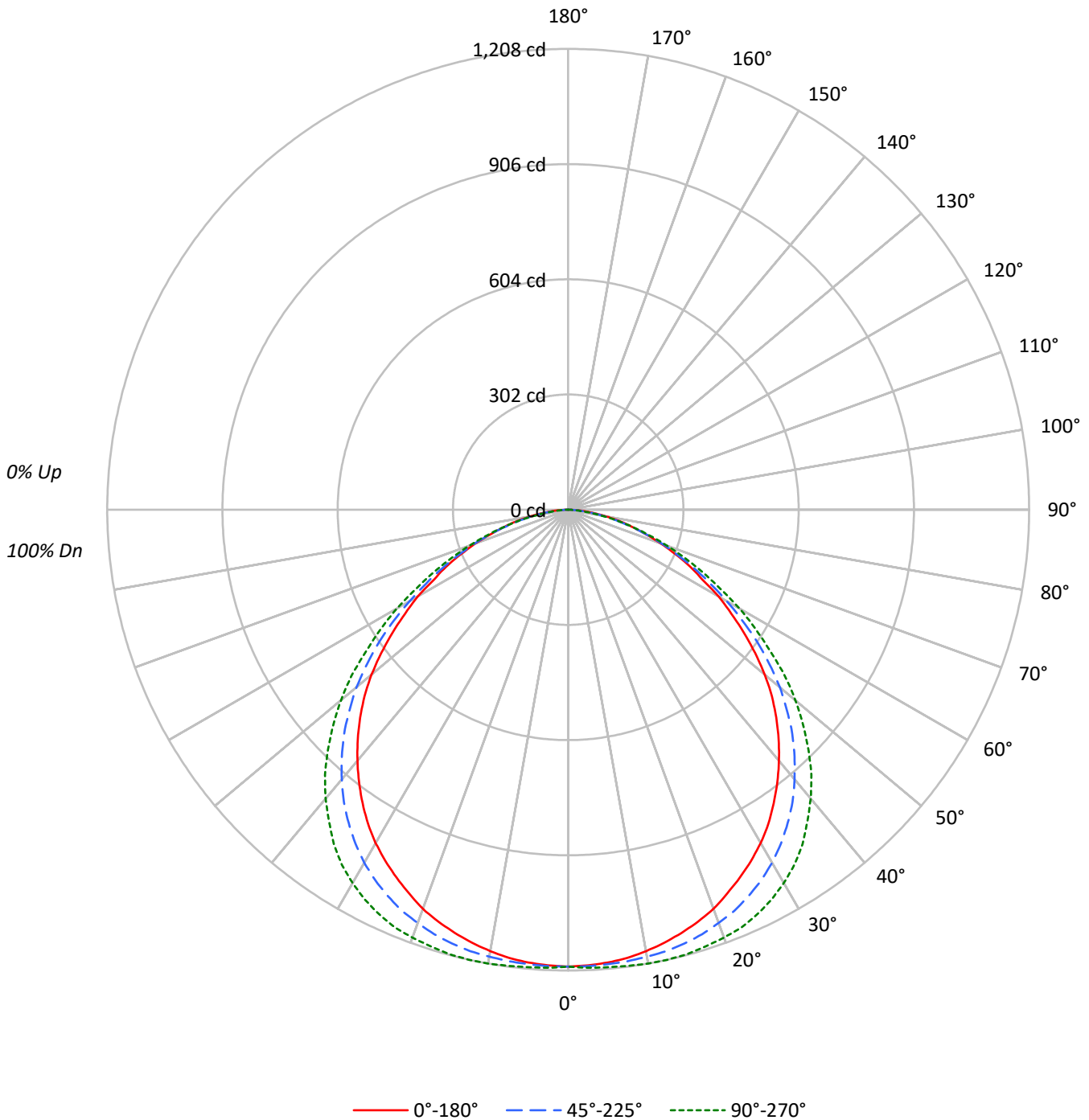
Input Watts (W): 36.735
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	103	99	96	98	95	93	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	74	72					72			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	56	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	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	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	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3223	3223	3223
5°	3219	3230	3252
10°	3211	3250	3301
15°	3200	3280	3360
20°	3189	3301	3418
25°	3160	3319	3477
30°	3135	3320	3511
35°	3086	3295	3517
40°	3019	3242	3472
45°	2935	3161	3387
50°	2816	3031	3254
55°	2636	2838	3031
60°	2450	2583	2793
65°	2246	2325	2481
70°	2033	2065	2162
75°	1791	1749	1812
80°	1557	1430	1367
85°	1266	951	824



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.1	3.4
10°-20°	332.5	9.9
20°-30°	515.2	15.4
30°-40°	627.1	18.7
40°-50°	638.7	19.0
50°-60°	538.6	16.1
60°-70°	364.3	10.9
70°-80°	182.1	5.4
80°-90°	40.5	1.2
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°	961.8	28.7
0°-40°	1588.9	47.4
0°-60°	2766.1	82.5
0°-90°	3353.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3353.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1198	1198	1198	1198	1198	
5°	1192	1194	1196	1202	1204	113
15°	1148	1157	1177	1198	1206	324
25°	1064	1081	1118	1155	1171	491
35°	939	960	1003	1050	1070	587
45°	771	786	831	874	890	594
55°	562	570	605	634	646	503
65°	353	347	365	382	390	348
75°	172	166	168	170	174	185
85°	41	35	31	27	27	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1197.7	1197.7	1197.7	1197.7	1197.7
2.5°	1195.7	1195.7	1197.7	1199.8	1201.8
5°	1191.6	1193.6	1195.7	1201.8	1203.9
7.5°	1185.4	1187.4	1193.6	1201.8	1205.9
10°	1175.1	1179.2	1189.5	1201.8	1208.0
12.5°	1162.8	1169.0	1185.4	1199.8	1208.0
15°	1148.5	1156.7	1177.2	1197.7	1205.9
17.5°	1132.1	1142.3	1166.9	1189.5	1199.8
20°	1113.6	1125.9	1152.6	1181.3	1193.6
22.5°	1089.0	1105.4	1138.2	1171.0	1185.4
25°	1064.4	1080.8	1117.7	1154.6	1171.0
27.5°	1037.7	1056.2	1095.2	1136.2	1152.6
30°	1009.0	1025.4	1068.5	1111.6	1130.0
32.5°	976.2	992.6	1037.7	1082.9	1103.4
35°	939.3	959.8	1002.9	1050.0	1070.5
37.5°	900.3	918.8	966.0	1011.1	1029.5
40°	859.3	877.8	922.9	970.1	988.5
42.5°	816.2	834.7	877.8	922.9	943.4
45°	771.1	785.5	830.6	873.7	890.1
47.5°	724.0	734.2	777.3	818.3	834.7
50°	672.7	682.9	724.0	760.9	777.3
52.5°	617.3	625.5	664.5	697.3	715.8
55°	561.9	570.1	605.0	633.7	646.0
57.5°	506.6	510.7	541.4	570.1	582.4
60°	455.3	455.3	479.9	502.5	518.9
62.5°	395.8	402.0	420.4	443.0	449.1
65°	352.7	346.6	365.1	381.5	389.7
67.5°	303.5	299.4	311.7	326.1	330.2
70°	258.4	252.3	262.5	270.7	274.8
72.5°	211.2	209.2	213.3	219.4	221.5
75°	172.3	166.1	168.2	170.2	174.3
77.5°	137.4	127.2	129.2	127.2	129.2
80°	100.5	92.3	92.3	90.2	88.2
82.5°	67.7	63.6	59.5	55.4	53.3
85°	41.0	34.9	30.8	26.7	26.7
87.5°	16.4	12.3	10.3	10.3	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)