

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: P296612

Luminaire Tested: **22RLN-LD5-40-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296612
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-LD5-40-RDP-UNV-L82765-W2A1-U-5000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3344.0 lumens
Efficiency: N/A
Efficacy: 101.9 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

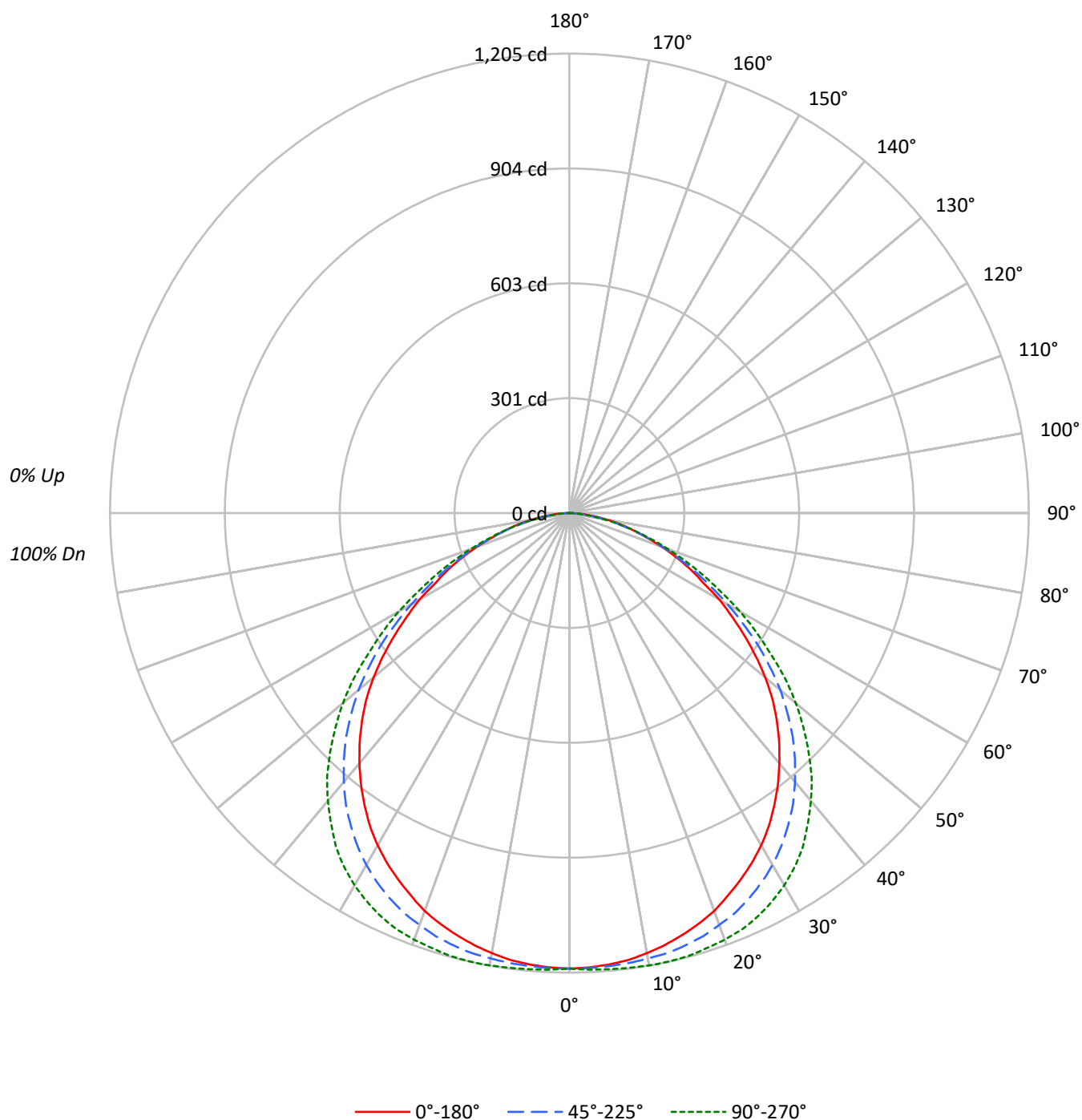
Input Watts (W): 32.829
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3214	3214	3214
5°	3210	3221	3243
10°	3202	3242	3292
15°	3191	3271	3351
20°	3180	3292	3409
25°	3152	3310	3468
30°	3127	3311	3502
35°	3077	3286	3507
40°	3010	3233	3463
45°	2927	3153	3378
50°	2809	3023	3245
55°	2629	2831	3023
60°	2444	2576	2785
65°	2240	2318	2474
70°	2028	2060	2157
75°	1786	1744	1808
80°	1553	1426	1364
85°	1263	948	821



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.8	3.4
10°-20°	331.7	9.9
20°-30°	513.8	15.4
30°-40°	625.4	18.7
40°-50°	636.9	19.0
50°-60°	537.1	16.1
60°-70°	363.3	10.9
70°-80°	181.6	5.4
80°-90°	40.4	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°	959.3	28.7
0°-40°	1584.6	47.4
0°-60°	2758.7	82.5
0°-90°	3344.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3344.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1194	1194	1194	1194	1194	
5°	1188	1190	1192	1199	1201	113
15°	1145	1154	1174	1194	1203	323
25°	1062	1078	1115	1152	1168	489
35°	937	957	1000	1047	1068	586
45°	769	783	828	871	888	592
55°	560	569	603	632	644	501
65°	352	346	364	380	389	347
75°	172	166	168	170	174	184
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°	1194.5	1194.5	1194.5	1194.5	1194.5
2.5°	1192.4	1192.4	1194.5	1196.5	1198.6
5°	1188.4	1190.4	1192.4	1198.6	1200.6
7.5°	1182.2	1184.3	1190.4	1198.6	1202.7
10°	1172.0	1176.1	1186.3	1198.6	1204.7
12.5°	1159.7	1165.9	1182.2	1196.5	1204.7
15°	1145.4	1153.6	1174.0	1194.5	1202.7
17.5°	1129.0	1139.3	1163.8	1186.3	1196.5
20°	1110.6	1122.9	1149.5	1178.1	1190.4
22.5°	1086.1	1102.4	1135.2	1167.9	1182.2
25°	1061.5	1077.9	1114.7	1151.5	1167.9
27.5°	1035.0	1053.4	1092.2	1133.1	1149.5
30°	1006.3	1022.7	1065.6	1108.6	1127.0
32.5°	973.6	990.0	1035.0	1079.9	1100.4
35°	936.8	957.2	1000.2	1047.2	1067.7
37.5°	897.9	916.3	963.4	1008.4	1026.8
40°	857.0	875.4	920.4	967.5	985.9
42.5°	814.1	832.5	875.4	920.4	940.9
45°	769.1	783.4	828.4	871.3	887.7
47.5°	722.0	732.2	775.2	816.1	832.5
50°	670.9	681.1	722.0	758.8	775.2
52.5°	615.7	623.8	662.7	695.4	713.8
55°	560.4	568.6	603.4	632.0	644.3
57.5°	505.2	509.3	540.0	568.6	580.9
60°	454.1	454.1	478.6	501.1	517.5
62.5°	394.8	400.9	419.3	441.8	447.9
65°	351.8	345.7	364.1	380.4	388.6
67.5°	302.7	298.6	310.9	325.2	329.3
70°	257.7	251.6	261.8	270.0	274.1
72.5°	210.7	208.6	212.7	218.9	220.9
75°	171.8	165.7	167.7	169.8	173.9
77.5°	137.0	126.8	128.9	126.8	128.9
80°	100.2	92.0	92.0	90.0	88.0
82.5°	67.5	63.4	59.3	55.2	53.2
85°	40.9	34.8	30.7	26.6	26.6
87.5°	16.4	12.3	10.2	10.2	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)