

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: P296621

Luminaire Tested: **22RLN-LD5-44-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296621
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-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: 3662.0 lumens
Efficiency: N/A
Efficacy: 100.5 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

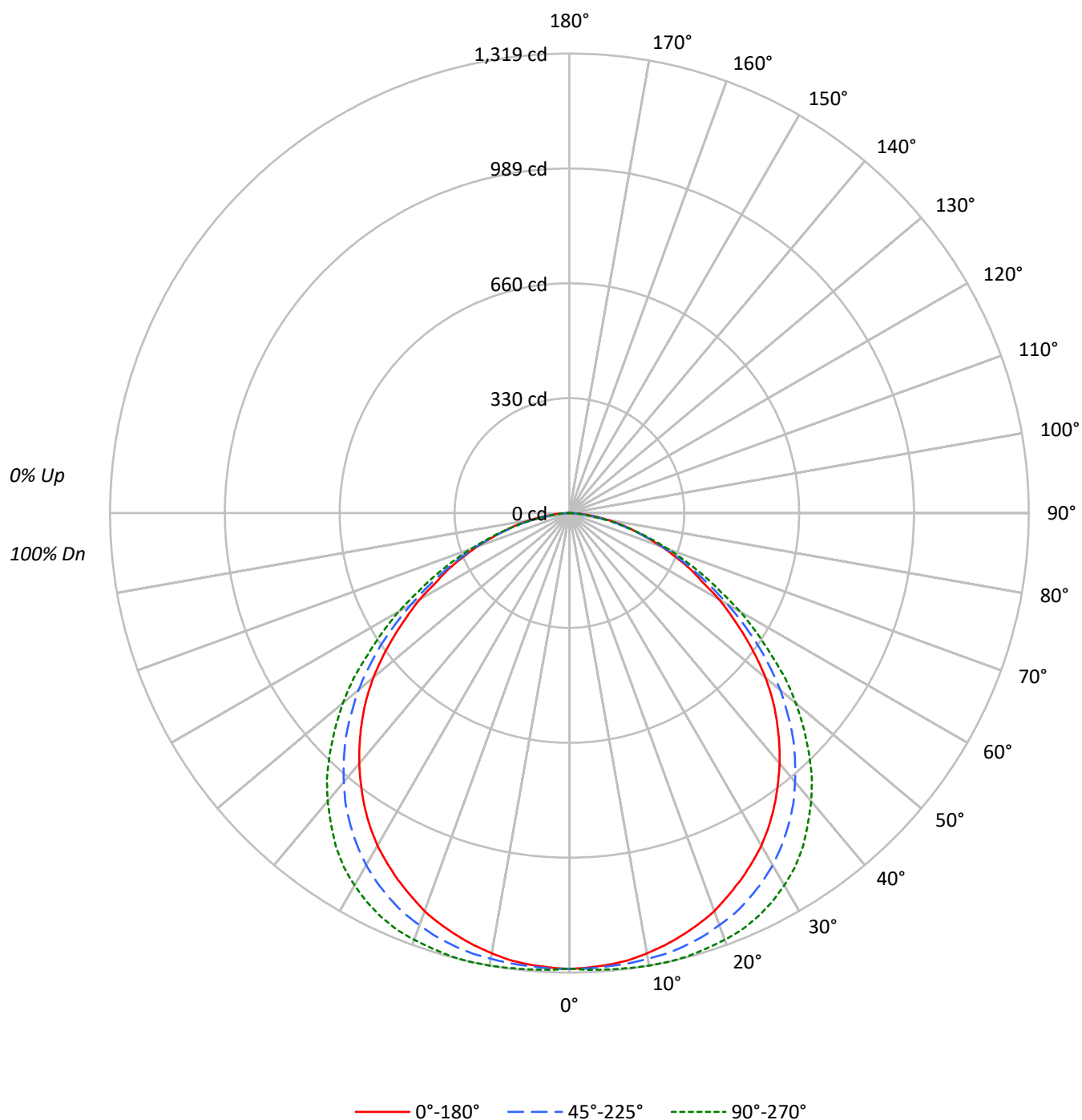
Input Watts (W): 36.456
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3520	3520	3520
5°	3515	3527	3552
10°	3507	3550	3605
15°	3494	3582	3669
20°	3483	3605	3733
25°	3452	3624	3798
30°	3424	3626	3835
35°	3370	3598	3841
40°	3297	3541	3792
45°	3205	3452	3699
50°	3076	3310	3554
55°	2879	3100	3310
60°	2676	2821	3050
65°	2453	2539	2710
70°	2220	2256	2361
75°	1956	1910	1980
80°	1702	1562	1492
85°	1383	1037	898



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.6	3.4
10°-20°	363.2	9.9
20°-30°	562.7	15.4
30°-40°	684.8	18.7
40°-50°	697.5	19.0
50°-60°	588.2	16.1
60°-70°	397.9	10.9
70°-80°	198.8	5.4
80°-90°	44.2	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°	1050.5	28.7
0°-40°	1735.3	47.4
0°-60°	3021.0	82.5
0°-90°	3662.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3662.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1308	1308	1308	1308	1308	
5°	1301	1304	1306	1313	1315	124
15°	1254	1263	1286	1308	1317	354
25°	1162	1180	1221	1261	1279	536
35°	1026	1048	1095	1147	1169	641
45°	842	858	907	954	972	649
55°	614	623	661	692	706	549
65°	385	378	399	417	426	381
75°	188	181	184	186	190	202
85°	45	38	34	29	29	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1308.1	1308.1	1308.1	1308.1	1308.1
2.5°	1305.8	1305.8	1308.1	1310.3	1312.6
5°	1301.4	1303.6	1305.8	1312.6	1314.8
7.5°	1294.6	1296.9	1303.6	1312.6	1317.0
10°	1283.4	1287.9	1299.1	1312.6	1319.3
12.5°	1270.0	1276.7	1294.6	1310.3	1319.3
15°	1254.3	1263.3	1285.7	1308.1	1317.0
17.5°	1236.4	1247.6	1274.5	1299.1	1310.3
20°	1216.2	1229.7	1258.8	1290.2	1303.6
22.5°	1189.4	1207.3	1243.1	1279.0	1294.6
25°	1162.5	1180.4	1220.7	1261.0	1279.0
27.5°	1133.4	1153.5	1196.1	1240.9	1258.8
30°	1102.0	1119.9	1167.0	1214.0	1234.2
32.5°	1066.2	1084.1	1133.4	1182.6	1205.0
35°	1025.9	1048.3	1095.3	1146.8	1169.2
37.5°	983.3	1003.5	1055.0	1104.3	1124.4
40°	938.5	958.7	1007.9	1059.5	1079.6
42.5°	891.5	911.6	958.7	1007.9	1030.3
45°	842.2	857.9	907.1	954.2	972.1
47.5°	790.7	801.9	848.9	893.7	911.6
50°	734.7	745.9	790.7	831.0	848.9
52.5°	674.2	683.2	725.7	761.6	781.7
55°	613.7	622.7	660.8	692.1	705.6
57.5°	553.2	557.7	591.3	622.7	636.1
60°	497.2	497.2	524.1	548.8	566.7
62.5°	432.3	439.0	459.2	483.8	490.5
65°	385.3	378.5	398.7	416.6	425.6
67.5°	331.5	327.0	340.5	356.1	360.6
70°	282.2	275.5	286.7	295.7	300.1
72.5°	230.7	228.5	232.9	239.7	241.9
75°	188.1	181.4	183.7	185.9	190.4
77.5°	150.1	138.9	141.1	138.9	141.1
80°	109.8	100.8	100.8	98.6	96.3
82.5°	73.9	69.4	65.0	60.5	58.2
85°	44.8	38.1	33.6	29.1	29.1
87.5°	17.9	13.4	11.2	11.2	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)