

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: P296605

Luminaire Tested: **22RLN-LD5-35-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296605
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-LD5-35-RDP-UNV-L82765-W2A1-U-5700K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2993.0 lumens
Efficiency: N/A
Efficacy: 104.5 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

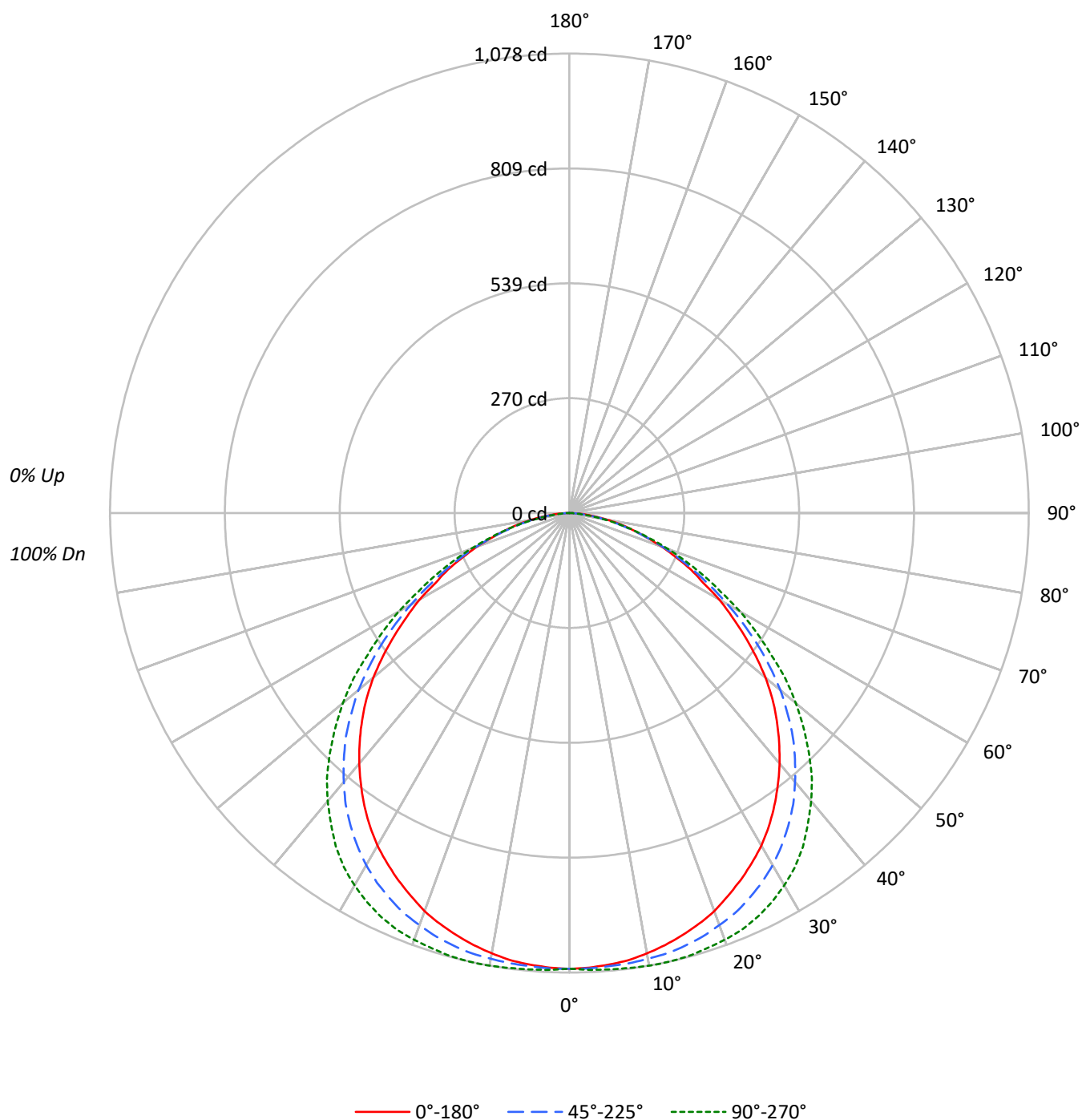
Input Watts (W): 28.644
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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°	2877	2877	2877
5°	2873	2883	2903
10°	2866	2901	2946
15°	2856	2927	2999
20°	2847	2946	3051
25°	2821	2962	3104
30°	2799	2964	3134
35°	2754	2941	3139
40°	2694	2894	3100
45°	2619	2821	3024
50°	2514	2705	2905
55°	2353	2533	2706
60°	2187	2306	2493
65°	2005	2075	2215
70°	1815	1843	1930
75°	1599	1561	1618
80°	1390	1277	1220
85°	1130	849	735



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.8	3.4
10°-20°	296.8	9.9
20°-30°	459.9	15.4
30°-40°	559.7	18.7
40°-50°	570.1	19.0
50°-60°	480.7	16.1
60°-70°	325.2	10.9
70°-80°	162.5	5.4
80°-90°	36.2	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°	858.6	28.7
0°-40°	1418.3	47.4
0°-60°	2469.1	82.5
0°-90°	2993.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2993.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1069	1069	1069	1069	1069	
5°	1064	1065	1067	1073	1075	101
15°	1025	1032	1051	1069	1076	289
25°	950	965	998	1031	1045	438
35°	838	857	895	937	956	524
45°	688	701	741	780	794	530
55°	502	509	540	566	577	449
65°	315	309	326	340	348	311
75°	154	148	150	152	156	165
85°	37	31	28	24	24	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1069.1	1069.1	1069.1	1069.1	1069.1
2.5°	1067.3	1067.3	1069.1	1070.9	1072.8
5°	1063.6	1065.4	1067.3	1072.8	1074.6
7.5°	1058.1	1060.0	1065.4	1072.8	1076.4
10°	1049.0	1052.6	1061.8	1072.8	1078.3
12.5°	1038.0	1043.5	1058.1	1070.9	1078.3
15°	1025.2	1032.5	1050.8	1069.1	1076.4
17.5°	1010.5	1019.7	1041.6	1061.8	1070.9
20°	994.1	1005.0	1028.8	1054.5	1065.4
22.5°	972.1	986.7	1016.0	1045.3	1058.1
25°	950.1	964.8	997.7	1030.7	1045.3
27.5°	926.3	942.8	977.6	1014.2	1028.8
30°	900.7	915.3	953.8	992.2	1008.7
32.5°	871.4	886.0	926.3	966.6	984.9
35°	838.4	856.8	895.2	937.3	955.6
37.5°	803.7	820.1	862.2	902.5	919.0
40°	767.0	783.5	823.8	865.9	882.4
42.5°	728.6	745.1	783.5	823.8	842.1
45°	688.3	701.1	741.4	779.9	794.5
47.5°	646.2	655.4	693.8	730.4	745.1
50°	600.5	609.6	646.2	679.2	693.8
52.5°	551.0	558.4	593.1	622.4	638.9
55°	501.6	508.9	540.0	565.7	576.7
57.5°	452.2	455.8	483.3	508.9	519.9
60°	406.4	406.4	428.4	448.5	463.2
62.5°	353.3	358.8	375.3	395.4	400.9
65°	314.9	309.4	325.9	340.5	347.8
67.5°	270.9	267.3	278.3	291.1	294.7
70°	230.7	225.2	234.3	241.6	245.3
72.5°	188.6	186.7	190.4	195.9	197.7
75°	153.8	148.3	150.1	151.9	155.6
77.5°	122.7	113.5	115.3	113.5	115.3
80°	89.7	82.4	82.4	80.5	78.7
82.5°	60.4	56.8	53.1	49.4	47.6
85°	36.6	31.1	27.5	23.8	23.8
87.5°	14.6	11.0	9.2	9.2	9.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)