

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: P296475

Luminaire Tested: **22RLN-LD5-35-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296475
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-LD5-35-UNV-L93050-W2A1-U-4500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3306.0 lumens
Efficiency: N/A
Efficacy: 113.6 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

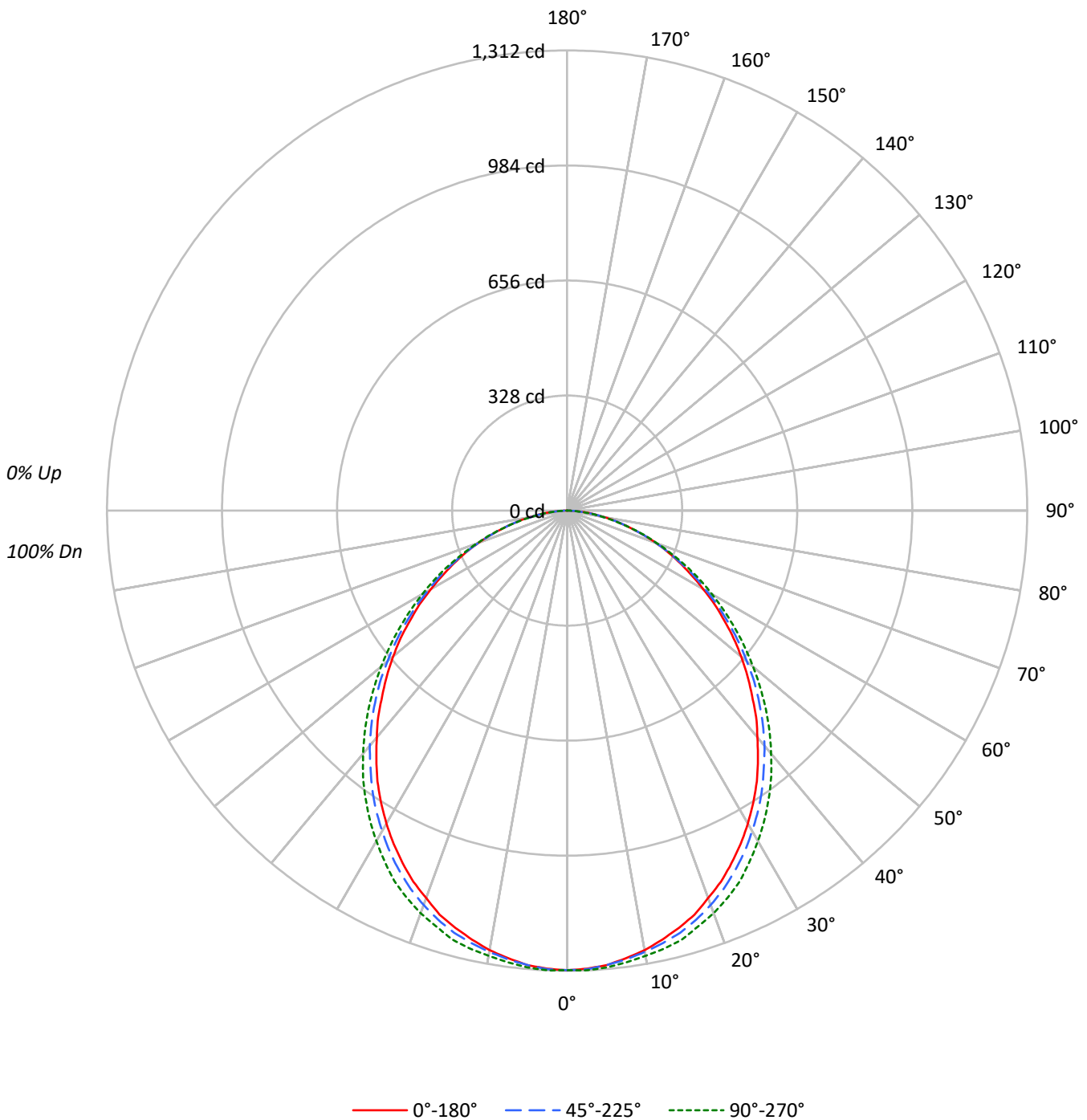
Input Watts (W): 29.109
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P296475

CATALOG NUMBER: 22RLN-LD5-35-UNV-L93050-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P296475

CATALOG NUMBER: 22RLN-LD5-35-UNV-L93050-W2A1-U-4500K

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	102	99	95	98	95	92	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	71					71			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46					46			
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40					40			
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36					36			
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32					32			
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29					29			
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3526	3526	3526
5°	3513	3513	3531
10°	3477	3491	3522
15°	3430	3472	3527
20°	3366	3427	3498
25°	3294	3362	3460
30°	3201	3278	3380
35°	3097	3184	3292
40°	2964	3075	3179
45°	2835	2948	3049
50°	2712	2802	2898
55°	2567	2645	2738
60°	2413	2475	2564
65°	2267	2309	2383
70°	2114	2114	2153
75°	1885	1885	1885
80°	1660	1609	1609
85°	1325	1272	1170



TEST NUMBER: P296475

CATALOG NUMBER: 22RLN-LD5-35-UNV-L93050-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.6	3.7
10°-20°	351.4	10.6
20°-30°	521.9	15.8
30°-40°	605.7	18.3
40°-50°	596.4	18.0
50°-60°	504.7	15.3
60°-70°	360.0	10.9
70°-80°	193.4	5.9
80°-90°	48.7	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°	996.9	30.2
0°-40°	1602.6	48.5
0°-60°	2703.8	81.8
0°-90°	3306.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3306.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1310	1310	1310	1310	1310	
5°	1300	1300	1300	1306	1307	123
15°	1231	1235	1246	1258	1266	347
25°	1109	1113	1132	1154	1165	511
35°	943	944	969	992	1002	588
45°	745	750	775	793	801	576
55°	547	549	564	579	584	490
65°	356	356	363	369	374	353
75°	181	180	181	181	181	195
85°	43	41	41	38	38	51
90°	0	0	0	0	0	



TEST NUMBER: P296475

CATALOG NUMBER: 22RLN-LD5-35-UNV-L93050-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1310.4	1310.4	1310.4	1310.4	1310.4
2.5°	1307.1	1307.1	1308.8	1310.4	1312.1
5°	1300.5	1300.5	1300.5	1305.5	1307.1
7.5°	1287.3	1289.0	1290.6	1295.6	1298.9
10°	1272.5	1274.2	1277.5	1285.7	1289.0
12.5°	1252.7	1257.7	1262.6	1274.2	1279.1
15°	1231.3	1234.6	1246.1	1257.7	1265.9
17.5°	1208.2	1209.9	1223.1	1239.5	1242.8
20°	1175.3	1180.2	1196.7	1213.2	1221.4
22.5°	1145.6	1148.9	1167.0	1188.4	1195.0
25°	1109.3	1112.6	1132.4	1153.8	1165.4
27.5°	1071.4	1074.7	1096.1	1119.2	1127.5
30°	1030.2	1033.5	1054.9	1079.7	1087.9
32.5°	987.4	990.6	1013.7	1035.2	1046.7
35°	942.8	944.5	969.2	992.3	1002.2
37.5°	893.4	898.3	921.4	944.5	956.0
40°	843.9	848.9	875.3	896.7	904.9
42.5°	797.8	804.4	825.8	845.6	853.8
45°	745.0	750.0	774.7	792.8	801.1
47.5°	697.2	702.2	723.6	741.8	746.7
50°	647.8	651.1	669.2	685.7	692.3
52.5°	598.3	600.0	616.5	633.0	637.9
55°	547.2	548.9	563.7	578.6	583.5
57.5°	499.4	499.4	512.6	524.2	529.1
60°	448.3	448.3	459.9	471.4	476.4
62.5°	400.5	400.5	412.1	420.3	426.9
65°	356.0	356.0	362.6	369.2	374.2
67.5°	313.2	308.2	314.8	323.1	321.4
70°	268.7	263.7	268.7	272.0	273.6
72.5°	224.2	220.9	224.2	225.8	229.1
75°	181.3	179.7	181.3	181.3	181.3
77.5°	145.1	140.1	143.4	141.8	140.1
80°	107.1	105.5	103.8	102.2	103.8
82.5°	74.2	72.5	72.5	69.2	69.2
85°	42.9	41.2	41.2	37.9	37.9
87.5°	16.5	16.5	14.8	14.8	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)